

FISCAL YEAR 2021

State of Georgia Single Audit Report Part II





May 26, 2022

The Honorable Brian P. Kemp Governor of Georgia and Members of the General Assembly Citizens of the State of Georgia

We are pleased to present the State of Georgia's (State) Single Audit Report – Part II for the year ended June 30, 2021. Historically, we have presented the results of our audit of the Annual Comprehensive Financial Report (ACFR) and elements required by the Uniform Guidance within the Single Audit Report as a single report. For Fiscal Year 2021, we are providing this information in two separate reports, as noted below.

Our opinions on the State's financial statements are presented in the State's ACFR, which was issued under separate cover on January 24, 2022. We were not able to obtain sufficient, appropriate audit evidence for balances to provide an opinion on the Unemployment Compensation Fund.

The Single Audit Report – Part I contains financial reporting information based on our audit of the State's ACFR for the year ended June 30, 2021. That report includes our Independent Auditor's *Report on Internal Control Over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance with Government Auditing Standards* accompanied by our financial findings, conclusions, and recommendations, and the responses of the respective state organizations. The Single Audit Report – Part I was issued under separate cover on March 24, 2022.

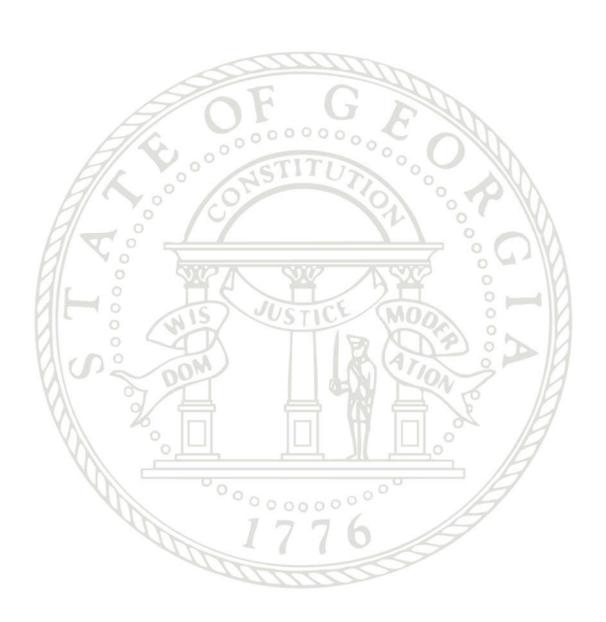
The Single Audit Report – Part II presents the remaining elements required by the Uniform Guidance, our Independent Auditor's *Report on Compliance for Each Major Federal Program and on Internal Control Over Compliance Required by the Uniform Guidance*. This report also includes additional findings and questioned costs related to federal awards that came to our attention through the Statewide Single Audit. Additionally, this report includes the Corrective Action Plan for Current Year Findings and the Summary Schedule of Prior Audit Findings. The report also contains our report on the Schedule of Expenditures of Federal Awards (SEFA) and related notes required by Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance).

We would like to express our appreciation to all those involved in the preparation and completion of this report. We believe the results of this statewide audit provide valuable information to the State's decision makers and others interested in the activities of the State of Georgia.

Respectfully submitted,

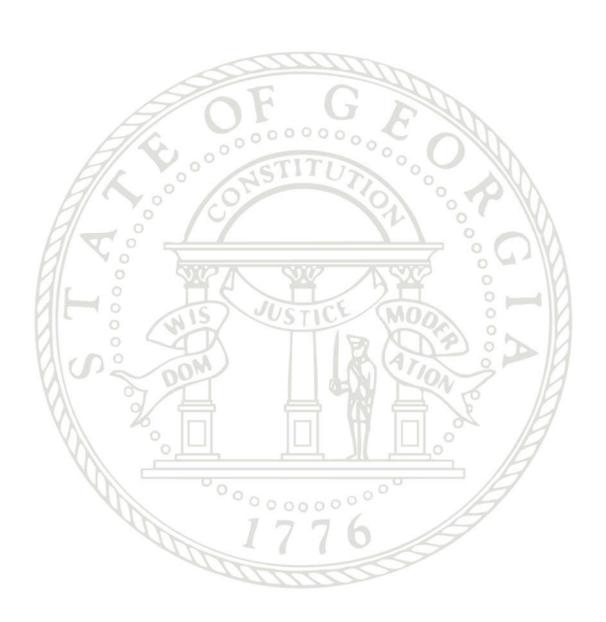
They S. Lufy.

Greg S. Griffin State Auditor



STATE OF GEORGIA TABLE OF CONTENTS YEAR ENDED JUNE 30, 2021

<u>Page No.</u>
Independent Auditor's Reports
Report on Compliance for Each Major Federal Program; Report on
Internal Control Over Compliance
Report on Schedule of Expenditures of Federal Awards Required by the
Uniform Guidance
Schedule of Findings and Questioned Costs
Section I - Summary of Auditor's ResultsB-3
Section II - Financial Statement FindingsB-5
Section III - Federal Award Findings and Questioned Costs
Schedule of Expenditures of Federal Awards
Schedule of Expenditures of Federal Awards
Notes to the Schedule of Expenditures of Federal Awards
Corrective Action Plan for Current Year Findings
Summary Schedule of Prior Audit Findings E-1
Appendix "A"
Listing of Organizational Units Comprising the State of Georgia Reporting Entity F-1





INDEPENDENT AUDITOR'S REPORT ON COMPLIANCE FOR EACH MAJOR FEDERAL PROGRAM; REPORT ON INTERNAL CONTROL OVER COMPLIANCE; AND REPORT ON SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS REQUIRED BY THE UNIFORM GUIDANCE

The Honorable Brian P. Kemp, Governor of Georgia Members of the General Assembly of the State of Georgia

Report on Compliance for Each Major Federal Program

We have audited the State of Georgia's (State) compliance with the types of compliance requirements described in the OMB Compliance Supplement that could have a direct and material effect on each of the State's major federal programs for the year ended June 30, 2021. The State's major federal programs are identified in the Summary of Auditor's Results section of the accompanying Schedule of Findings and Questioned Costs.

Management's Responsibility

Management is responsible for compliance with federal statutes, regulations, and the terms and conditions of its federal awards applicable to its federal programs.

Auditor's Responsibility

Our responsibility is to express an opinion on compliance for each of the State's major federal programs based on our audit of the types of compliance requirements referred to above. As stated in our report on the basic financial statements, we did not audit the financial statements of the State entities listed below nor did we audit compliance for the major federal programs or percentages of these federal programs at the State entities identified in the table on the following page.

AU Health System, Inc. Augusta University Foundation, Inc. and Subsidiaries Georgia Ports Authority Augusta University Research Institute, Inc. Employees' Retirement System of Georgia Georgia Advanced Technology Ventures, Inc. and Subsidiaries Georgia College & State University Foundation, Inc.

and Subsidiaries Georgia Environmental Finance Authority Georgia Gwinnett College Foundation, Inc. Georgia Health Sciences Foundation, Inc. Georgia Housing and Finance Authority Kennesaw State University Foundation, Inc. Medical College of Georgia Foundation, Inc. Georgia Lottery Corporation

Georgia Southern University Housing Foundation, Inc. and Subsidiaries

Georgia State Financing and Investment Commission Georgia State University Athletic Association, Inc.

Georgia State University Foundation, Inc.

Georgia State University Research Foundation, Inc.

Georgia Tech Athletic Association Georgia Tech Facilities, Inc. Georgia Tech Foundation, Inc. Georgia Tech Research Corporation University of North Georgia Real Estate Foundation, Inc. and Subsidiaries

Middle Georgia State University Real Estate
Foundation, Inc. and Subsidiaries
Teachers Retirement System of Georgia
The University of Georgia Foundation
University of Georgia Athletic Association, Inc.
University of Georgia Research Foundation, Inc.
and Subsidiaries

UWG Real Estate Foundation, Inc.
University System of Georgia Foundation, Inc.
and Affiliates
VSU Auxiliary Services Real Estate Foundation,
Inc.

The financial statements of the above mentioned State entities and the compliance for the federal programs/clusters identified in the table below were audited by other auditors whose reports, including reports on compliance and internal control over compliance, have been furnished to us. This report includes our consideration of the results of the other auditors' testing of compliance and internal control over compliance that are reported on separately by those other auditors. However, this report, insofar as it relates to the results of the other auditors, is based solely on the reports of the other auditors.

State Entity	Assistance Listing Number(s)	Program or Cluster Title	% of Program or Cluster Audited by Other Auditors
University of Georgia	84.SFA ¹	Student Financial Assistance Cluster	9%
Georgia Institute of Technology	84.425	Education Stabilization Fund	3%
University of			
Georgia/University of Georgia			
Research Foundation, Inc.			
Georgia Institute of	$R\&D^{1}$	Research and Development	88%
Technology/Georgia Tech		(R&D) Cluster	
Research Corporation			
University of			
Georgia/University of Georgia			
Research Foundation, Inc.			

The federal award expenditures audited by Other Auditors comprise 3.14 percent of the State's total expenditures of federal awards.

1The Assistance Listing Numbers included in the cluster are identified in the Schedule of Expenditures of Federal Awards.

We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States; and the audit requirements of Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance). Those standards and the Uniform Guidance require that we plan and perform the audit to obtain reasonable assurance about whether noncompliance with the types of compliance requirements referred to above that could have a direct and material effect on a major federal program occurred. An audit includes examining, on a test basis, evidence about the State's compliance with those requirements and performing such other procedures as we considered necessary in the circumstances.

We believe that our audit provides a reasonable basis for our adverse, qualified and unmodified opinions on compliance for the major federal programs. However, our audit does not provide a legal determination of the State's compliance.

Basis for Adverse Opinion on Unemployment Insurance Program (17.225)

As described in the accompanying *Schedule of Findings and Questioned Costs*, the State did not comply with requirements regarding the Unemployment Insurance Program as described in findings 2021-034, 2021-035, 2021-036 and 2021-038 for Activities Allowed or Unallowed, Allowable Costs/Cost Principles, Eligibility, Reporting, and Special Tests and Provisions. Compliance with such requirements is necessary, in our opinion, for the State to comply with requirements applicable to that program.

Adverse Opinion on Unemployment Insurance Program (17.225)

In our opinion, because of the significance of the matter discussed in the "Basis for Adverse Opinion" paragraph, the State did not comply, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on the Unemployment Insurance Program for the year ended June 30, 2021.

Basis for Qualified Opinion on Coronavirus Relief Fund (21.019) and Twenty-First Century Community Learning Centers (84.287)

As described in the accompanying *Schedule of Findings and Questioned Costs*, the State did not comply with requirements regarding the Coronavirus Relief Fund as described in finding 2021-041 for Subrecipient Monitoring and the Twenty-First Century Community Learning Centers program as described in finding 2021-014 for Reporting. Compliance with such requirements is necessary, in our opinion, for the State to comply with requirements applicable to those programs.

Qualified Opinion on Coronavirus Relief Fund (21.019) and Twenty-First Century Community Learning Centers (84.287)

In our opinion, except for the noncompliance described in the "Basis for Qualified Opinion" paragraph, the State complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on the Coronavirus Relief Fund and Twenty-First Century Community Learning Centers program for the year ended June 30, 2021.

Unmodified Opinion on Each of the Other Major Federal Programs

In our opinion, based on our audit and the reports of other auditors, the State complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on each of its other major federal programs identified in the *Summary of Auditor's Results* section of the accompanying *Schedule of Findings and Questioned Costs* for the year ended June 30, 2021.

Other Matters

The results of our auditing procedures disclosed instances of noncompliance, which are required to be reported in accordance with the Uniform Guidance and which are described in the accompanying *Schedule of Findings and Questioned Costs* in findings 2021-016, 2021-020, 2021-021, 2021-024, 2021-026, 2021-027, 2021-029, 2021-030 and 2021-040. Our opinion on each major federal program is not modified with respect to these matters.

The State's responses to the noncompliance findings identified in our audit consist of views of responsible officials and corrective action plans. The views of responsible officials are described in the accompanying *Schedule of Findings and Questioned Costs*, and the corrective action plans are described in the accompanying *Corrective Action Plan for Current Year Findings*. The State's

responses were not subjected to the auditing procedures applied in the audit of compliance and, accordingly, we express no opinion on the responses.

Report on Internal Control over Compliance

Management of the State is responsible for establishing and maintaining effective internal control over compliance with the types of compliance requirements referred to above. In planning and performing our audit of compliance, we considered the State's internal control over compliance with the types of requirements that could have a direct and material effect on each major federal program to determine the auditing procedures that are appropriate in the circumstances for the purpose of expressing an opinion on compliance for each major federal program and to test and report on internal control over compliance in accordance with the Uniform Guidance, but not for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, we do not express an opinion on the effectiveness of the State's internal control over compliance.

Our consideration of internal control over compliance was for the limited purpose described in the preceding paragraph and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies and therefore, material weaknesses or significant deficiencies may exist that have not been identified. However, as discussed below, we did identify certain deficiencies in internal control over compliance that we consider to be material weaknesses and significant deficiencies.

A deficiency in internal control over compliance exists when the design or operation of a control over compliance does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, noncompliance with a type of compliance requirement of a federal program on a timely basis. A material weakness in internal control over compliance is a deficiency, or a combination of deficiencies, in internal control over compliance, such that there is a reasonable possibility that material noncompliance with a type of compliance requirement of a federal program will not be prevented, or detected and corrected, on a timely basis. We consider the deficiencies in internal control over compliance described in the accompanying Schedule of Findings and Questioned Costs in findings 2021-014, 2021-034, 2021-035, 2021-036, 2021-038, and 2021-041 to be material weaknesses.

A significant deficiency in internal control over compliance is a deficiency, or a combination of deficiencies, in internal control over compliance with a type of compliance requirement of a federal program that is less severe than a material weakness in internal control over compliance, yet important enough to merit attention by those charged with governance. We consider the deficiencies in internal control over compliance described in the accompanying *Schedule of Findings and Questioned Costs* in findings 2021-015, 2021-016, 2021-017, 2021-018, 2021-019, 2021-020, 2021-021, 2021-022, 2021-023, 2021-024, 2021-025, 2021-026, 2021-027, 2021-028, 2021-029, 2021-030, 2021-031, 2021-032, 2021-033, 2021-037, 2021-039, and 2021-040 to be significant deficiencies.

The State's responses to the internal control over compliance findings identified in our audit consist of views of responsible officials and corrective action plans. The views of responsible officials are described in the accompanying *Schedule of Findings and Questioned Costs*, and the corrective action plans are described in the accompanying *Corrective Action Plan for Current Year Findings*. The State's responses were not subjected to the auditing procedures applied in the audit of compliance and, accordingly, we express no opinion on the responses.

The purpose of this report on internal control over compliance is solely to describe the scope of our testing of internal control over compliance and the results of that testing based on the requirements of the Uniform Guidance. Accordingly, this report is not suitable for any other purpose.

Report on Schedule of Expenditures of Federal Awards Required by the Uniform Guidance

We have audited the financial statements of the governmental activities, business-type activities, aggregate discretely presented component units, each major fund (except the Unemployment Compensation Fund), and aggregate remaining fund information of the State as of and for the year ended June 30, 2021, and the related notes to the financial statements, which collectively comprise the State's basic financial statements. We have issued our report thereon dated January 24, 2022.

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the State's basic financial statements. We have issued unmodified opinions for all opinion units, except for the Unemployment Compensation Fund, on which we expressed no opinion.

As of the date of our audit report, the State was unable to provide sufficient appropriate audit evidence for the balances and financial activity of the receivables and payables of the Unemployment Compensation Fund, and we were unable to obtain sufficient appropriate audit evidence to determine or verify by alternative means whether certain paid claims met eligibility requirements. The State's records do not permit us, nor is it practical to extend or apply other auditing procedures, to obtain sufficient appropriate audit evidence to conclude that the receivable and payable balances and revenues, expenses and related cash flows in the Unemployment Compensation Fund were free of material misstatement. As a result, we did not express an opinion on the Unemployment Compensation Fund.

The accompanying *Schedule of Expenditures of Federal Awards* is presented for purposes of additional analysis as required by the Uniform Guidance and is not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied by us and other auditors in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America.

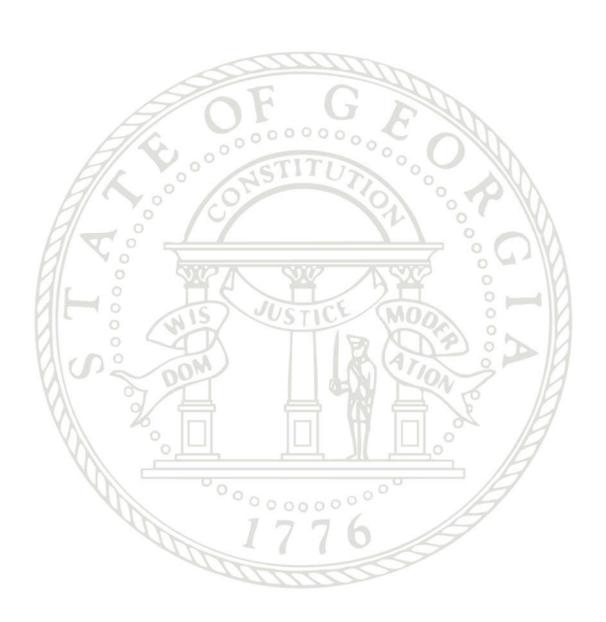
In our opinion, based on our audit, the procedures performed as described above, and the reports of the other auditors, except for the effects of the disclaimer referred to above, the *Schedule of Expenditures of Federal Awards* is fairly stated in all material respects in relation to the basic financial statements as a whole.

Respectfully submitted,

They S. Lufy.

Greg S. Griffin State Auditor

May 26, 2022



Schedule of Findings and Questioned Costs

The Schedule of Findings and Questioned Costs (Schedule) was prepared in accordance with Title 2 U.S. Code of Federal Regulations (CFR) Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance). The Schedule contains the following sections:

Section I - Summary of Auditor's Results

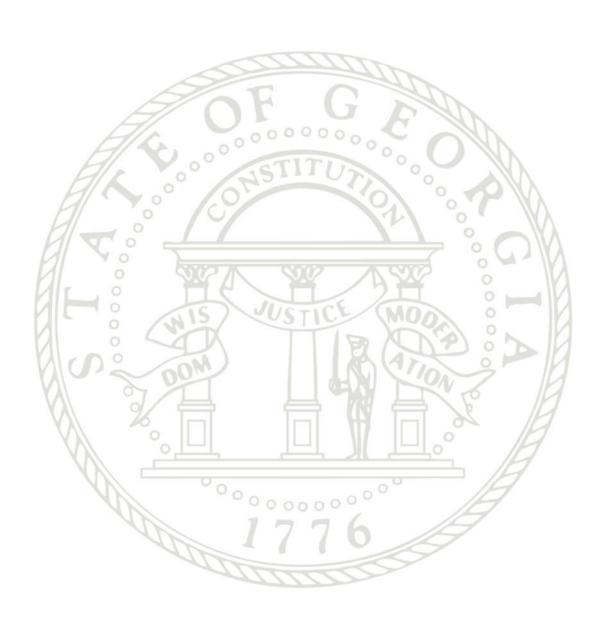
A summary of the results of our audit and a list of the State's major federal programs are presented in this section of the Schedule.

Section II - Financial Statement Findings

This section presents findings related to the financial statements, including any material weaknesses or significant deficiencies in internal control over financial reporting and noncompliance and other matters that are required to be reported in accordance with *Government Auditing Standards*. Financial statement findings are organized by State entity (entity number).

Section III - Federal Award Findings and Questioned Costs

This section presents federal award findings and questioned costs. Findings are reported for material weaknesses or significant deficiencies in internal control over compliance and material noncompliance with the compliance requirements that have a direct and material effect on each of the State's major federal programs and other findings and questioned costs that are required to be reported pursuant to Title 2 CFR 200.516(a). Federal award findings are organized by federal agency, State entity (entity number), federal program, and compliance requirement.



STATE OF GEORGIA SCHEDULE OF FINDINGS AND QUESTIONED COSTS SECTION I – SUMMARY OF AUDITOR'S RESULTS YEAR ENDED JUNE 30, 2021

SUMMARY OF AUDITOR'S RESULTS

Financial Statements

Type of auditor's report issued:

Governmental Activities; Aggregate Discretely Presented Component Units;
Governmental – General Fund; Governmental – General Obligation Bond
Projects Fund; Enterprise – Higher Education Fund; Enterprise – State Employees'
Health Benefit Fund; and Aggregate Remaining Fund Information
Unmodified

Unemployment Compensation Fund

Disclaimer

Internal control over financial reporting:

Material weakness(es) identified?Significant deficiency(ies) identified?Yes

Noncompliance material to financial statements noted?

Yes

Yes

Federal Awards

Internal control over major programs:

Material weakness(es) identified?Significant deficiency(ies) identified?Yes

Type of auditor's report issued on compliance for major programs:

Unemployment Insurance Program

Coronavirus Relief Fund

Twenty-First Century Community Learning Centers

All other major programs

Adverse

Qualified

Qualified

Unmodified

Any audit findings disclosed that are required to be reported in accordance with 2 CFR 200.516(a)?

Dollar threshold used to distinguish between Type A and Type B programs: \$63,466,586

Auditee qualified as low-risk auditee?

Identification of Major Programs:

The table on the following page lists the major programs in order by Assistance Listing (AL) number. For each cluster, the first AL number in the cluster designates its placement within the table.

STATE OF GEORGIA SCHEDULE OF FINDINGS AND QUESTIONED COSTS SECTION I – SUMMARY OF AUDITOR'S RESULTS YEAR ENDED JUNE 30, 2021

Major Programs

Federal Agency	Program or Cluster Title	AL No.
U.S. Department of Agriculture	Wildfires and Hurricanes Indemnity Program Plus	10.129
	Pandemic EBT Food Benefits (P-EBT)	10.542
	Supplemental Nutrition Assistance Program Cluster	10.551, 10.561
U.S. Department of Labor	Unemployment Insurance	17.225
	Airport Improvement Program	20.106
U.S. Department of Transportation	Federal Transit Cluster	20.500,20.507, 20.525,20.526
	Formula Grants for Rural Areas	20.509
U.S. Department of the Treasury	Coronavirus Relief Fund	21.019
U.S. Department of Education	Career and Technical Education - Basic Grants to States	84.048
	Twenty-First Century Community Learning Centers	84.287
	Education Stabilization Fund	84.425
	Student Financial Assistance Cluster	Various*
U.S. Department of Health and Human Services	Immunization Cooperative Agreements	93.268
	Epidemiology and Laboratory Capacity for Infectious Diseases (ELC)	93.323
	Temporary Assistance for Needy Families	93.558
	Children's Health Insurance Program	93.767
	Medicaid Cluster	93.775, 93.777, 93.778
U.S. Department of Homeland Security	Disaster Grants - Public Assistance (Presidentially Declared Disasters)	97.036
	Presidential Declared Disaster Assistance to Individuals and Households - Other Needs	97.050
Various	Research and Development (R&D) Cluster	Various*

STATE OF GEORGIA SCHEDULE OF FINDINGS AND QUESTIONED COSTS SECTION II – FINANCIAL STATEMENT FINDINGS YEAR ENDED JUNE 30, 2021

FINANCIAL STATEMENT FINDINGS REPORTED UNDER GOVERNMENT AUDITING STANDARDS

See the State of Georgia Single Audit Report Part I for Financial Statement findings 2021-001 through 2021-013.

FEDERAL AWARD FINDINGS AND QUESTIONED COSTS

TABLE OF CONTENTS

FEDERAL	STATE ¹		PAGE
AGENCY	ENTITY	FINDING NUMBER AND TITLE	NUMBER
U.S. DEPAF	RTMENT OF ED	DUCATION	
414	Department of	of Education	B-8
		Improve Controls over Transparency Act Reporting	
509	Georgia State	University	B-10
	2021-015	Improve Controls over Cash Management	
548	Savannah Sta	te University	B-13
		Improve Controls over the Awarding Process	
		Improve Controls over the Return of Title IV Funds Pr	ocess
	2021-018	Strengthen Controls over Enrollment Reporting	
561		opolitan College	B-23
	2021-019	Improve Controls over the Awarding Process	
		Strengthen Controls over the Verification Process	
		Improve Controls over the Return of Title IV Funds Pr	ocess
	2021-022	Strengthen Controls over Enrollment Reporting	
569		College	В-36
		Strengthen Segregation of Duties	
		Improve Controls over the Return of Title IV Funds Pr	ocess
	2021-025	Strengthen Controls over Enrollment Reporting	
588	_	a State College	B-45
	2021-026	Improve Controls over the Awarding Process	
832		hnical College	
	2021-027	Strengthen Controls over the Return of Title IV Funds	Process

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES 419 Department of Community Health B-51 2021-028 Improve Controls over Managed Care Organization Financial **Audits** 2021-029 Improve Controls over Medicaid Payments after Date of Death 2021-030 Improve Controls over Medicaid Capitation Payments for **Medicare Members** 2021-031 Continue to Strengthen Application Risk Management Program 2021-032 Improve Controls over Inpatient Medicaid Payments 2021-033 Improve Controls over Medicaid Eligibility Determinations for Ex **Parte Members** U.S. DEPARTMENT OF LABOR Department of LaborB-67 440 2021-034 Strengthen Controls over Expenditures 2021-035 Improve Controls over Eligibility Determinations 2021-036 Improve Controls over Employer Filed Claims 2021-037 Improve Controls over Financial Reporting 2021-038 Improve Controls over the Identification, Recording, and Reporting of Overpayments 2021-039 Strengthen Logical Access Controls U.S. DEPARTMENT OF THE TREASURY 422 2021-040 Continue to Improve Internal Controls Activities over the Coronavirus Relief Fund 2021-041 Improve Controls over Subrecipient Monitoring

¹The entity number represents the control number that was assigned to each State entity.

FEDERAL AGENCY: U.S. DEPARTMENT OF EDUCATION

STATE ENTITY: DEPARTMENT OF EDUCATION

2021-014 Improve Controls over Transparency Act Reporting

Compliance Requirement: Reporting

Internal Control Impact: Material Weakness

Compliance Impact: Material Noncompliance

Federal Awarding Agency: U.S. Department of Education

Pass-Through Entity: None

AL Number and Title: 84.287 – Twenty-First Century Community

Learning Centers

Federal Award Number: S287C20010 (Year 2021)

Questioned Costs: None Identified

Description:

The Georgia Department of Education should improve internal controls to ensure that subaward information associated with the Federal Funding Accountability and Transparency Act is reported appropriately and timely.

Background Information:

The Twenty-First Century Community Learning Centers (21st CCLC) program was created to establish or expand community learning centers (Centers) that provide students with academic enrichment opportunities during non-school hours or periods when school is not in session to complement the students' regular academic program. These Centers provide services, such as tutoring, mentoring, homework help, community service opportunities, and music, arts, sports, and cultural activities.

Funds associated with the 21st CCLC program are provided to the Georgia Department of Education (GaDOE) for allocation to eligible entities, including local educational agencies, community-based organizations, and other public or private entities, through competitive subgrants. Because GaDOE subgrants 21st CCLC program funds to various entities, the GaDOE must comply with the Federal Funding Accountability and Transparency Act of 2006 (FFATA). The FFATA requirements were signed into law on September 26, 2006 in an effort to give the American public access to information on how their tax dollars are being spent. This information, including information associated with the use of 21st CCLC program funds, is accessible via the USASpending.gov website.

Criteria:

As a recipient of federal awards, the GaDOE is required to establish and maintain effective internal control over federal awards that provides reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal awards pursuant to Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform*

Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance), Section 200.303 – Internal Controls.

Under the FFATA (Public Law 109-282), as codified in Title 2 CFR Part 170, *Reporting Subaward and Executive Compensation Information*, recipients of grants or cooperative agreements, including GaDOE, who make first-tier subawards of \$30,000 or more are required to register in the Federal Funding Accountability and Transparency Act Subaward Reporting System (FSRS). Subaward data, such as the subaward date, subawardee Data Universal Numbering System number, amount of subaward, subaward obligation/action date, date of report submission, and subaward number, are submitted through the FSRS and accessible to the general public through the USASpending.gov website.

Condition:

Our examination of reporting requirements associated with the 21st CCLC program revealed that the GaDOE failed to submit subaward data to the FSRS. Therefore, all first-tier subawards of \$30,000 or more, and the associated subaward data, was not reflected on the USASpending.gov website as required.

Cause:

The GaDOE had established procedures in place to comply with the FFATA reporting requirements for federal awards. However, management over the 21st CCLC program was not aware of these requirements or procedures, and therefore, no information was reported through the FSRS.

Effect:

The deficiencies noted in the FFATA reporting process resulted in noncompliance with federal regulations. Without effective controls in place to ensure compliance with federal reporting requirements, the transparency objective associated with the FFATA requirements was not achieved as the general public was unable to review expenditure data associated with the State of Georgia's 21st CCLC program.

Recommendation:

We recommend that the GaDOE:

- Follow established processes and procedures associated with the FFATA reporting requirements;
- Incorporate additional oversight, training, and/or staff to aid in the identification of subawards to be reported and the reporting of appropriate data elements, as applicable, in a timely manner; and
- Maintain documentation of subaward agreements and the determination of whether each subaward should be entered into the FSRS in compliance with the FFATA reporting requirements.

Views of Responsible Officials:

The Department of Education concurs with this audit finding. We will continuously monitor the compliance supplements for updates in order to meet all requirements. We are currently in the process of hiring new staff to complete FFATA reporting, which will better ensure the reports are submitted timely and accurately.

FEDERAL AGENCY: U.S. DEPARTMENT OF EDUCATION (continued)

STATE ENTITY: GEORGIA STATE UNIVERSITY

2021-015 Improve Controls over Cash Management

Compliance Requirement: Cash Management Internal Control Impact: Significant Deficiency

Compliance Impact: Nonmaterial Noncompliance
Federal Awarding Agency: U.S. Department of Education

Pass-Through Entity: None

AL Numbers and Titles: 84.063 – Federal Pell Grant Program

84.268 - Federal Direct Student Loans

Federal Award Number: P063P200086 (Year: 2021), P268K210086 (Year:

2021)

Questioned Costs: None Identified

Description:

The University does not have adequate controls in place to ensure that excessive cash balances are not maintained and appropriate reviews and approvals occur for requests of funds related to the Federal Pell Grant and Federal Direct Student Loans programs.

Background Information:

The University requests student financial assistance (SFA) funds from the U.S. Department of Education under the advance payment method. This is the most widely used method for requesting funds, and permits, but does not require, the University to draw down SFA funds prior to disbursing funds to eligible students and parents. The University's request for funds must not exceed the amount it immediately needs for disbursements the University has made or will make to eligible students or parents. The disbursement of funds occurs on the date the Institution credits a student's account or pays a student or parent directly with either SFA funds or institutional funds used in advance of drawing down federal funds.

The University requested and received a net total of \$104,815,425 in Federal Pell Grant funds and \$200,698,649 in Federal Direct Student Loans program funds from the U.S. Department of Education during the fiscal year under review.

Criteria:

As a recipient of federal awards, the Institution is required to establish and maintain effective internal control over federal awards that provides reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal awards pursuant to Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance), Section 200.303 – Internal Controls.

Provisions included in Title 34 CFR Sections 668.163 and 668.166 provide requirements for maintaining and accounting for funds and excess cash, respectively. Specifically, provisions included in Title 34 CFR Section 668.166(a) state, "The Secretary considers excess cash to be any amount of title IV, HEA program funds, other than Federal Perkins Loan Program funds, that an institution does not disburse to students or parents by the end of the third business day following the date the institution – (1) Received those funds from the Secretary; or (2) Deposited or transferred to its depository account previously disbursed title IV, HEA program funds, such as those resulting from award adjustments, recoveries, or cancellations." Furthermore, provisions included in Title 34 CFR Section 668.166(b) state, "An institution may maintain for up to seven days an amount of excess cash that does not exceed one percent of the total amount of funds the institution drew down in the prior award year. The institution must return immediately to the Secretary any amount of excess cash over the one-percent tolerance and any amount of excess cash remaining in its account after the seven-day tolerance period."

Condition:

A review of all cash drawdowns and disbursements related to the Federal Pell Grant and Federal Direct Student Loans programs was performed to determine if any excessive cash balances were maintained during the fiscal year under review. The following deficiency was noted:

• Two periods of unallowable, excessive cash balances were noted in the Federal Direct Student Loans program. These cash balances totaled as much as \$621,311 and were maintained for a total of 35 days beyond three business days and/or the tolerance period of seven calendar days, if applicable.

In addition, upon gaining an understanding of internal controls in place over the cash drawdown process, auditors reviewed documentation for one Federal Pell Grant program and four Federal Direct Student Loans program cash drawdowns to determine if the amounts requested were reasonable and the requests were reviewed and approved by supervisory personnel prior to submission to the U.S. Department of Education; however, evidence of supervisory review and approval was not reflected on the drawdown documentation provided by the University.

Cause:

In discussing these deficiencies with management, they stated that though supervisory reviews of cash drawdowns occurred, it was not the policy of University to maintain evidence of these reviews on file. In addition, appropriate monitoring of cash balances was not performed when adjustments to student aid amounts were processed, which led to the instances of unallowable, excessive cash balances within the Federal Direct Student Loans program.

Effect:

The University was not in compliance with federal regulations concerning the disbursement of Federal Direct Student Loan funds and excess cash. In addition, provisions included in Title 34 CFR Section 668.166(c) provide consequences for maintaining excess cash and state, "Upon a finding that an institution maintained excess cash for any amount or time over that allowed in the tolerance provisions... the actions the Secretary may take include, but are not limited to - (1) Requiring the institution to reimburse the Secretary for the costs the federal government incurred in providing that excess cash to the institution; and (2) Providing funds to the institution under the reimbursement payment method or heightened cash monitoring payment method."

Recommendation:

The University should follow established procedures to ensure that Federal Direct Student Loan funds are disbursed within three business days of the receipt of such funds or follow appropriate cash tolerance procedures prescribed by the U.S. Department of Education. The University should only request Federal Direct Student Loan funds when the amounts are immediately needed to disburse funds to students or parents. The University should also ensure that potential excess cash balances are reviewed when adjustments are made to students' awards and returned as necessary within the prescribed timeframes. In addition, the University should establish procedures to ensure that Federal Pell Grant and Federal Direct Student Loan drawdown requests are properly reviewed and approved by supervisory personnel. The University should also contact the U.S. Department of Education regarding resolution of this finding.

Views of Responsible Officials:

We concur with this finding.

FEDERAL AGENCY: U.S. DEPARTMENT OF EDUCATION (continued)

STATE ENTITY: SAVANNAH STATE UNIVERSITY

2021-016 Improve Controls over the Awarding Process

Compliance Requirement: Eligibility

Internal Control Impact: Significant Deficiency

Compliance Impact: Nonmaterial Noncompliance
Federal Awarding Agency: U.S. Department of Education

Pass-Through Entity: None

AL Numbers and Titles: 84.007 – Federal Supplemental Educational

Opportunity Grants

84.033 – Federal Work-Study Program 84.063 – Federal Pell Grant Program 84.268 – Federal Direct Student Loans

Federal Award Number: P007A201039 (Year: 2021), P033A201039 (Year:

2021), P063P200091 (Year: 2021), P268K210091

(Year: 2021)

Questioned Costs:\$793.00Repeat of Prior Year Finding:2020-013

Description:

The Institution's Student Financial Aid Office improperly determined the Student Financial Assistance award amounts for eligible students and awarded amounts to ineligible students.

Background Information:

To receive student financial assistance (SFA), students must complete a Free Application for Federal Student Aid (FAFSA). Once the FAFSA is processed, an Institutional Student Information Record (ISIR) is provided to the Institution. Among other things, the ISIR contains the applicant's Expected Family Contribution (EFC) and helps determine student eligibility, award amounts, and disbursements.

The following types of student financial aid (SFA) was awarded and disbursed to students at the Institution:

• Federal Pell Grant (Pell) – The Federal Pell Grant program provides grants to eligible students enrolled in eligible undergraduate programs and certain eligible post-baccalaureate teacher certificate programs and is intended to provide the foundation of financial aid. Maximum and minimum Pell Grant awards are established by statute, but the amount for which each student is eligible is based on Pell Grant Payment and Disbursement Schedules published every year by the U.S. Department of Education (ED).

- Federal Supplemental Educational Opportunity Grants (FSEOG) The FSEOG program provides grants to eligible undergraduate students. Priority for FSEOG awards is given to Pell Grant recipients who have the lowest EFC.
- Federal Work-Study (FWS) The FWS program provides part-time employment to eligible undergraduate and graduate students who need earnings to help meet the costs of postsecondary education.
- Federal Direct Student Loans The Direct Loan Program makes Direct Subsidized Loans and Direct Unsubsidized Loans to eligible students, and Direct PLUS Loans to eligible graduate or professional students or to eligible parents of eligible dependent undergraduate students, to pay for the cost of attending postsecondary educational institutions. Each student's ISIR, along with other information, is used by the Institution to originate the student's Direct Loan.

Criteria:

As a recipient of federal awards, the Institution is required to establish and maintain effective internal control over federal awards that provides reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal awards pursuant to Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance), Section 200.303 – Internal Controls.

All ED programs are authorized by Title IV of the Higher Education Act (HEA) of 1965, as amended (20 USC 1001 *et seq.*). In addition, provisions included in Title 34 CFR Section 668 provide general provisions for administering SFA programs and Title 34 CFR Sections 675, 676, 685, and 690 provide eligibility and other related program requirements that are specific to the FWS Program, FSEOG Program, Federal Direct Student Loans Program, and Federal Pell Grant Program, respectively.

Condition:

A sample of 60 students from a population of 3,064 students who received student financial assistance funds was randomly selected for testing using a non-statistical sampling method. Student financial assistance files were reviewed to ensure that financial assistance was properly calculated and disbursed to eligible students. The following deficiencies were identified:

• One student received \$793 more in Federal Pell Grant Program funds than they were eligible to receive based upon their enrollment status. This resulted in an over disbursement of \$793.

Questioned Costs:

Upon testing a sample of \$673,058 in financial aid disbursements, known questioned costs of \$793 were identified for the students who received student financial assistance in excess of their eligibility. Using the total population amount of \$33,874,743, we project the likely questioned costs to be approximately \$39,911. The following assistance listing numbers were affected by the known and likely questioned costs: 84.063 and 84.268.

Cause:

In discussing these deficiencies with management, they stated that the Registrar's Office did not receive notification from a faculty member that the student never began attendance in one course. The student's financial aid had already been disbursed when the notification occurred and the Financial Aid Office was not made aware of the dropped class to adjust the student's Federal Pell Grant Program funds.

Effect:

These deficiencies may expose the Institution to unnecessary financial strains and shortages. The funds disbursed to students in excess of their eligibility must be returned to the U.S. Department of Education. Though the Institution may attempt to collect the funds from individual students affected by the errors, these collection efforts could be unsuccessful as the students may no longer attend the Institution and/or fail to repay the funds. Additionally, the Institution was not in compliance with federal regulations concerning awarding of SFA funds to students.

Recommendation:

The Institution should review its processes and procedures for determining each student's financial aid eligibility. Where vulnerable, the Institution should develop and/or modify its policies and procedures to ensure that correct amounts will be awarded to students in conformity with federal requirements. Additionally, the Institution should develop and implement a monitoring process to ensure that controls are functioning properly. The Institution should also contact the U.S. Department of Education regarding resolution of this finding.

Views of Responsible Officials:

We concur with this finding.

FEDERAL AGENCY: U.S. DEPARTMENT OF EDUCATION (continued)

STATE ENTITY: SAVANNAH STATE UNIVERSITY (continued)

2021-017 Improve Controls over the Return of Title IV Funds Process

Compliance Requirement: Special Tests and Provisions

Internal Control Impact: Significant Deficiency

Compliance Impact: Nonmaterial Noncompliance
Federal Awarding Agency: U.S. Department of Education

Pass-Through Entity: None

AL Numbers and Titles: 84.007 – Federal Supplemental Educational

Opportunity Grants

84.033 – Federal Work-Study Program 84.063 – Federal Pell Grant Program 84.268 – Federal Direct Student Loans

Federal Award Number: P007A201039 (Year: 2021), P033A201039 (Year:

2021), P063P200091 (Year: 2021), P268K210091

(Year: 2021)

Questioned Costs: None Identified

Repeat of Prior Year Findings: 2020-017, 2016-034, 2015-016,

2014-033

Description:

The Institution did not properly perform the Return of Title IV funds process to ensure that unearned Title IV funds were returned in a timely manner.

Background Information:

Student financial assistance, or Title IV, funds are awarded to a student under the assumption that the student will attend school for the entire period for which the assistance is awarded. When a student withdraws, the student may no longer be eligible for the full amount of Title IV funds that the student was originally scheduled to receive. If a recipient of Title IV grant or loan funds withdraws from a school after beginning attendance, the school must perform a Return of Title IV (R2T4) calculation to determine the amount of Title IV assistance earned by the student. Up through the 60% point in each period of enrollment, a pro rata schedule is used to determine the amount of Title IV funds the student has earned at the time of withdrawal. After the 60% point in the period of enrollment, a student is considered to have earned 100% of the Title IV funds the student was scheduled to receive during the period.

The R2T4 calculation is prepared using the following information associated with the period of enrollment:

• The student's Title IV aid information, including amounts disbursed and amounts that could have been disbursed,

- The withdrawal date and scheduled start date, end date, and break days, and
- Institutional charges, including tuition, fees, room, board, books, supplies, materials, and equipment.

In addition, an unofficial withdrawal is one in which the Institution has not received notice from the student that the student has ceased or will cease attending the school. Schools must have a procedure in place to determine when a student who began attendance and received or could have received an initial disbursement of Title IV funds unofficially withdrew. For these unofficial withdrawals, the Institution must also determine a withdrawal date, which may be the midpoint of the period of enrollment or the last date of an academically related activity in which the student participated.

Criteria:

As a recipient of federal awards, the Institution is required to establish and maintain effective internal control over federal awards that provides reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal awards pursuant to Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance), Section 200.303 – Internal Controls.

Provisions included in Title 34 CFR Section 668.22 provide requirements over the treatment of Title IV funds when a student withdraws. The Institution is required to determine the amount of Title IV funds that the student earned as of the student's withdrawal date when a recipient of Title IV funds withdraws from the Institution during a payment period or period of enrollment in which the recipient began attendance. A refund must be returned to Title IV programs when the total amount of the Title IV grant or loan assistance, or both, that the student earned is less than the amount of the Title IV grant and/or loan assistance that was disbursed to the student as of the withdrawal date.

Additionally, provisions included in Title 34 CFR Section 668.22(j) address the timeframe for the return of title IV funds and state "(1) An institution must return the amount of title IV funds for which it is responsible... as soon as possible but no later than 45 days after the date of the institution's determination that the student withdrew... (2) For an institution that is not required to take attendance, an institution must determine the withdrawal date for a student who withdraws without providing notification to the institution no later than 30 days after the end of the earlier of the – (i) Payment period or period of enrollment... (ii) Academic year in which the student withdrew; or (iii) Educational program from which the student withdrew."

Condition:

A sample of 22 students from a population of 107 students who received student financial assistance (SFA) and withdrew from the Institution during the Fall 2020 and Spring 2021 semesters was randomly selected for testing using a non-statistical sampling method. The students' R2T4 calculations were reviewed to ensure that the refunds were calculated and returned in the correct amount to the proper funding agency and/or student in a timely manner. The following deficiencies were noted:

• The refund calculations for three students withdrew during the Spring 2021 semester could not be provided for review. Though it was determined that these students were

eligible to receive their entire financial aid disbursement based upon their withdrawal date, the students were reflected on the Institution's R2T4 listing and should have a calculation on-file.

- The refund calculation for one student who withdrew during the Fall 2020 semester was calculated incorrectly due to the use of improper withdrawal date. This student was requested to return \$135 more than the required amount to various SFA programs.
- The proration between the school and student portion of the refund was incorrect for one student who withdrew during the Fall 2020 semester.
- Funds were not returned to the appropriate grantor programs within the required time frame for two of the withdrawn students tested.

A sample of 39 students from a population of 190 students who received SFA for the Fall 2020 and Spring 2021 semesters and withdrew from the Institution but for whom no R2T4 calculation was performed was randomly selected for testing using a non-statistical sampling method. Attendance and withdrawal records were reviewed to determine if a refund should have been calculated for these students. Our examination revealed that R2T4 calculations were actually performed for three of these students; therefore, the listing of R2T4 calculations provided for review was not accurate. Furthermore, the following deficiencies were noted upon review of these three R2T4 calculations:

- The proration between the school and student portion of the refund was incorrect for two of these students who withdrew during the Fall 2020 semester.
- Funds were not returned to the appropriate grantor programs within the required time frame for these three students.

Cause:

In discussing these deficiencies with management, they stated that financial aid staff did not clearly understand the audit requests related to R2T4 testing and did not seek clarification when auditors requested accurate listings from staff in multiple instances. In addition, staff turnover and absences due to COVID contributed to the lack of timeliness in performing R2T4 calculations and returning funds. Furthermore, human error in data entry resulted in the use of the incorrect withdrawal date in one student's R2T4 calculation.

Effect:

This deficiency may expose the Institution to unnecessary financial strains and shortages. The Institution's portion of the refunds that were not calculated correctly must be returned to the U.S. Department of Education. Though the Institution may attempt to collect the funds from individual students affected by the errors, these collection efforts could be unsuccessful as the students may no longer attend the Institution and/or fail to repay the funds. Additionally, not returning unearned Title IV funds to the U.S Department of Education in a timely manner may result in adverse actions and impact the Institution's participation in Title IV programs.

Recommendation:

The Institution should implement procedures to ensure that R2T4 calculations are accurate and that unearned funds are returned to the appropriate accounts in a timely manner in accordance

with federal regulations. Management should also develop and implement a monitoring process to ensure that controls are operating properly. The Institution should contact the U.S. Department of Education regarding resolution of the finding, as well.

Views of Responsible Officials:

We concur with this finding.

FEDERAL AGENCY: U.S. DEPARTMENT OF EDUCATION (continued)

STATE ENTITY: SAVANNAH STATE UNIVERSITY (continued)

2021-018 Strengthen Controls over Enrollment Reporting

Compliance Requirement: Special Tests and Provisions

Internal Control Impact: Significant Deficiency

Compliance Impact: Nonmaterial Noncompliance
Federal Awarding Agency: U.S. Department of Education

Pass-Through Entity: None

AL Numbers and Titles: 84.063 – Federal Pell Grant Program

84.268 - Federal Direct Student Loans

Federal Award Number: P063P200091 (Year: 2021), P268K210091 (Year:

2021)

Questioned Costs: None Identified

Repeat of Prior Year Finding: 2020-018

Description:

Student enrollment information was not reported to required organizations in a timely and accurate manner.

Background Information:

Institutions are required to report enrollment information under the Federal Pell Grant and Federal Direct Student Loans programs via the National Student Loan Data System (NSLDS). Institutions must review, update, and verify student enrollment statuses, program information, and effective dates periodically throughout the award year. The accuracy and timeliness of enrollment information reported by the Institution impacts its ability to properly administer the various Student Financial Assistance programs.

There are two categories of enrollment information reported to the NSLDS:

- Campus-Level, which includes data related to the student's overall enrollment at an institution's campus, and
- Program-Level, which includes data related to the student's program(s) of attendance.

The NSLDS Enrollment Reporting Guide provides institutions the requirements and guidance for reporting these specific campus-level and program-level enrollment details for students.

Criteria:

As a recipient of federal awards, the Institution is required to establish and maintain effective internal control over federal awards that provides reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal awards pursuant to Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform*

Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance), Section 200.303 – Internal Controls.

Regarding the enrollment reporting process, provisions included in Title 34 Section CFR 685.309(b) state that "(1) Upon receipt of an enrollment report from the Secretary, a school must update all information included in the report and return the report to the Secretary – (i) In the manner and format prescribed by the Secretary; and (ii) Within the timeframe prescribed by the Secretary. (2) Unless it expects to submit its next updated enrollment report to the Secretary within the next 60 days, a school must notify the Secretary within 30 days after the date the school discovers that – (i) … the student has ceased to be enrolled on at least a half-time basis for the period." In addition, per the NSLDS Enrollment Reporting Guide issued by the U.S. Department of Education, students who have received Federal Pell Grant Program funds will be included on the NSLDS roster file received by each institution and are subject to the same enrollment reporting requirements as those students who have received a loan under the William D. Ford Federal Direct Loan Program.

Condition:

A sample of 60 students who received Federal Pell Grant Program and/or Federal Direct Student Loan funds and had a reduction or increase in attendance level, graduated, withdrew, dropped out, or enrolled but never attended during the audit period was randomly selected for testing using a non-statistical sampling method. NSLDS Enrollment Detail information was reviewed for each student to ensure that the Institution accurately reported significant data elements under both the Campus-Level and Program-Level Record. The following deficiencies were identified:

- For 18 students, the Enrollment Effective Date and/or Program Enrollment Effective Date reflected on the Campus-Level Record and/or Program-Level Record, respectively, did not agree to the date on which the current enrollment status reported for the student was first effective.
- For 12 students, the Enrollment Status and Program Enrollment Status reflected on the Campus-Level and Program Level Record, respectively, was not appropriate based upon the student's enrollment status as of the reporting date.
- For one student, the Certification Date reflected on the Campus-Level Record was not within 60 days of the student's change in enrollment.
- For one student, the Program Begin Date reflected on the Program-Level Record did not agree with the information reported in the student information system.
- For one student, NSLDS Enrollment Detail information was not provided for review.
- For one student, no information was transmitted to the NSLDS though the student received a financial aid disbursement and was dropped from classes due to nonattendance.

Additionally, a sample of 22 students from a population of 107 students who received student financial assistance (SFA) and withdrew from the Institution during the Fall 2020 and Spring 2021 semesters was randomly selected for testing using a non-statistical sampling method. The

students' enrollment statuses were reviewed to ensure that their withdrawn status was submitted to the NSLDS in a timely manner. For six students, the Certification Date reflected on the Campus-Level Record was not within 60 days of the student's change in enrollment.

Cause:

In discussing these deficiencies with management, they stated that staff turnover, employing new, less knowledgeable staff, and staff absences due to COVID led to disruptions to the NSLDS reporting scheduled and reporting errors. There was also a table configured incorrectly within the student information system and resulted in the reporting of incorrect enrollment statuses.

Effect:

The Institution was not in compliance with federal regulations concerning enrollment reporting requirements. Additionally, if enrollment statuses are not submitted appropriately to NSLDS by the Institution, loan interest subsidies may be negatively affected, deferments of Federal Direct Student Loans may be continued in error, loan repayment dates could be recorded incorrectly, and the compilation of data associated with other Title IV aid programs could be adversely affected.

Recommendation:

The Institution should follow established policies and procedures to ensure that all changes in student enrollment statuses are reported in accordance with timeframes prescribed by the U.S. Department of Education. Additionally, management should develop and implement a monitoring process to ensure that controls are operating properly.

Views of Responsible Officials:

We concur with this finding.

FEDERAL AGENCY: U.S. DEPARTMENT OF EDUCATION (continued)

STATE ENTITY: ATLANTA METROPOLITAN STATE COLLEGE

2021-019 Improve Controls over the Awarding Process

Compliance Requirement: Eligibility

Internal Control Impact: Significant Deficiency

Compliance Impact: Nonmaterial Noncompliance
Federal Awarding Agency: U.S. Department of Education

Pass-Through Entity: None

AL Numbers and Titles: 84.007 – Federal Supplemental Educational

Opportunity Grants

84.033 – Federal Work-Study Program 84.063 – Federal Pell Grant Program 84.268 – Federal Direct Student Loans

Federal Award Number: P007A200964 (Year: 2021), P033A200964

(Year: 2021), P063P203513 (Year: 2021),

P268K213513 (Year: 2021)

Questioned Costs: None Identified

Repeat of Prior Year Finding: 2020-020

Description:

The Institution's Student Financial Aid Office improperly determined the Student Financial Assistance award amounts for eligible students.

Background Information:

To receive student financial assistance (SFA), students must complete a Free Application for Federal Student Aid (FAFSA). Once the FAFSA is processed, an Institutional Student Information Record (ISIR) is provided to the Institution. Among other things, the ISIR contains the applicant's Expected Family Contribution (EFC) and helps determine student eligibility, award amounts, and disbursements. Additionally, we followed up on the Institution's efforts to implement corrective action plans in response to the prior year finding in which we reported that the Institution improperly determined the SFA award amounts for eligible students. Although the Institution was unable to fully implement their corrective action plans associated with awarding students aid prior to fiscal year-end, we noted significant progress in implementing student information system coding updates, which led to the resolution of Satisfactory Academic Progress and transfer monitoring issues noted in the prior year.

The following types of student financial aid (SFA) was awarded and disbursed to students at the Institution:

• Federal Pell Grant (Pell) – The Federal Pell Grant program provides grants to eligible students enrolled in eligible undergraduate programs and certain eligible post-

baccalaureate teacher certificate programs and is intended to provide the foundation of financial aid. Maximum and minimum Pell Grant awards are established by statute, but the amount for which each student is eligible is based on Pell Grant Payment and Disbursement Schedules published every year by the U.S. Department of Education (ED).

- Federal Supplemental Educational Opportunity Grants (FSEOG) The FSEOG program provides grants to eligible undergraduate students. Priority for FSEOG awards is given to Pell Grant recipients who have the lowest EFC.
- Federal Work-Study (FWS) The FWS program provides part-time employment to eligible undergraduate and graduate students who need earnings to help meet the costs of postsecondary education.
- Federal Direct Student Loans The Direct Loan Program makes Direct Subsidized Loans and Direct Unsubsidized Loans to eligible students, and Direct PLUS Loans to eligible graduate or professional students or to eligible parents of eligible dependent undergraduate students, to pay for the cost of attending postsecondary educational institutions. Each student's ISIR, along with other information, is used by the Institution to originate the student's Direct Loan.

Criteria:

As a recipient of federal awards, the Institution is required to establish and maintain effective internal control over federal awards that provides reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal awards pursuant to Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance), Section 200.303 – Internal Controls.

All ED programs are authorized by Title IV of the Higher Education Act (HEA) of 1965, as amended (20 USC 1001 *et seq.*). In addition, provisions included in Title 34 CFR Section 668 provide general provisions for administering SFA programs and Title 34 CFR Sections 675, 676, 685, and 690 provide eligibility and other related program requirements that are specific to the FWS Program, FSEOG Program, Federal Direct Student Loans Program, and Federal Pell Grant Program, respectively.

Condition:

A sample of 60 students from a population of 1,370 students who received student financial assistance funds was randomly selected for testing using a non-statistical sampling method. Student financial assistance files were reviewed to ensure that financial assistance was properly calculated and disbursed to eligible students. The following deficiencies were identified:

- 24 students were not offered additional Federal Direct Student Loans that they were qualified to receive.
- Credit balances were not provided to eight students within 14 days of the date the balances were created.
- SFA disbursements were made to three students more than ten days prior to the first day

of classes for the payment period.

• The disbursement of Federal Direct Student Loan funds was not delayed for 30 days after the first day of classes for one first-time borrower.

Cause:

In discussing these deficiencies with management, they stated that the student information system was improperly configured to limit student loan eligibility to the second-year annual loan limits in the current year. This was a result of the Institution participating in the Experiment Six program with the United States Department of Education in the prior award year. In addition, the student information system was configured to only recognize the first day of the standard semester schedule rather than alternate sessions. As a result, funds were disbursed after thirty days from the original start date of the semester rather than having individual disbursement schedules built for each session within a semester. Furthermore, the Institution was awaiting various adjustments to student accounts before issuing refunds resulting from credit balances. These adjustments were not made in a timely manner and caused an unallowable delay in processing refunds due to the students.

Effect:

These deficiencies could expose students to unnecessary financial strains as they may have requested additional Federal Direct Student Loan funds had the funds been offered. In addition, if students who received SFA funds prior to the allowable disbursement period chose not to attend classes when they actually began, the Institution would be required to return the funds to the U.S. Department of Education. Though the Institution may attempt to collect the funds from individual students affected by the errors, these collection efforts could be unsuccessful. Furthermore, the Institution was not in compliance with federal regulations concerning awarding of SFA funds to students.

Recommendation:

The Institution should review its processes and procedures for determining each student's financial aid eligibility. Where vulnerable, the Institution should develop and/or modify its policies and procedures to ensure that correct amounts will be awarded to students in conformity with federal requirements. Additionally, the Institution should develop and implement a monitoring process to ensure that controls are functioning properly. The Institution should also contact the U.S. Department of Education regarding resolution of this finding.

Views of Responsible Officials:

We concur with this finding.

FEDERAL AGENCY: U.S. DEPARTMENT OF EDUCATION (continued)

STATE ENTITY: ATLANTA METROPOLITAN STATE COLLEGE (continued)

2021-020 Strengthen Controls over the Verification Process

Compliance Requirement: Special Tests and Provisions

Internal Control Impact: Significant Deficiency

Compliance Impact: Nonmaterial Noncompliance
Federal Awarding Agency: U.S. Department of Education

Pass-Through Entity: None

AL Numbers and Titles: 84.007 – Federal Supplemental Educational

Opportunity Grants

84.033 – Federal Work-Study Program 84.063 – Federal Pell Grant Program 84.268 – Federal Direct Student Loans

Federal Award Number: P007A200964 (Year: 2021), P033A200964

(Year: 2021), P063P203513 (Year: 2021),

P268K213513 (Year: 2021)

Questioned Costs: \$3,966.00

Description:

The Institution's Student Financial Assistance Office did not meet student verification requirements appropriately.

Background Information:

The U.S. Department of Education's Central Processing System (CPS) is used to select students who will receive or have received subsidized student financial assistance for verification. Unless the student is otherwise excluded from the verification process, the Institution must require each student selected by the CPS to verify information as required for the verification tracking group to which the applicant is assigned. The annual *Federal Student Aid (FSA) Handbook*, Application and Verification Guide, provides institutions with information associated with the verification tracking groups and verification items required to be tested. The Institution may also require applicants to verify any information used to calculate an applicant's expected family contribution (EFC) that the Institution has reason to believe is inaccurate.

Approximately 31% of the students who received federal student aid in the current fiscal year were selected for verification.

Criteria:

As a recipient of federal awards, the Institution is required to establish and maintain effective internal control over federal awards that provides reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal awards pursuant to Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform*

Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance), Section 200.303 – Internal Controls.

Provisions included in Title 34 CFR Sections 668.51 through 668.61 provide the compliance requirements for verification and updating student aid application information. Specifically, Title 34 CFR Section 668.56 states "For each award year the Secretary publishes... the FAFSA [Free Application for Federal Student Aid] information that an institution and an applicant may be required to verify. For each applicant whose FAFSA information is selected for verification by the Secretary, the Secretary specifies the specific information... that the applicant must verify." Additionally, Title 34 CFR Section 668.57 states, "If an applicant is selected... an institution must obtain the specified documentation."

Furthermore, Title 34 CFR Section 668.60 states that "(a) An institution must require an applicant selected for verification to submit to it, within the period of time it or the Secretary specifies, the documentation... that is requested by the institution. (b) For purposes of the subsidized student financial assistance programs, excluding the Federal Pell Grant Program – (1) If an applicant fails to provide the requested documentation within a reasonable time period established by the institution – (i) The institution may not (A) Disburse any additional Federal Perkins Loan or FSEOG [Federal Supplemental Educational Opportunity Grants] Program funds to the applicant; (B) Employ, continue to employ or allow an employer to employ the applicant under FWS [Federal Work-Study]; or (C) Originate the applicant's Direct Subsidized Loan or disburse any additional Direct Subsidized Loan proceeds for the applicant; and (ii) The applicant must repay to the institution any Federal Perkins Loan or FSEOG received for that award year... (3) If an institution has received proceeds for a Direct Subsidized Loan on behalf of an applicant, the institution must return all or a portion of those funds... if the applicant does not complete verification within the time period specified. (c) For the purposes of the Federal Pell Grant Program... (2) If the applicant does not provide to the institution the requested documentation, and if necessary, a valid SAR [Student Aid Report] or the institution does not receive a valid ISIR [Institutional Student Information Record]... the applicant – (i) Forfeits the Federal Pell Grant for the award year; and (ii) Must return any Federal Pell Grant payments previously received for that award year."

Condition:

A sample of 40 students from a population of 420 students who received student financial assistance (SFA) and were selected for verification by the U.S. Department of Education was randomly selected for testing using a non-statistical sampling method. Verification records were reviewed to ensure that the Institution obtained acceptable verification documentation, matched documentation obtained to the student aid application, submitted appropriate corrections when necessary, and reported the correct verification status to the Common Origination and Disbursement (COD) system. The following deficiencies were identified:

- One student's 2020-2021 Verification Worksheet was not signed and dated to support compliance with verification requirements. The student was disbursed \$3,966 in error.
- Two students who were independent non-filers did not appropriately certify all statements reflected on the 2020-2021 Unable to Obtain Verification of Nonfiling Letter from IRS Student Certification form.
- The tax return documentation provided for one student did not agree to their most recent ISIR.

Questioned Costs:

Upon testing a sample of \$201,979 in financial aid disbursements to students who were selected for verification, known questioned costs of \$3,966 were identified for the students for whom verification procedures were not completed appropriately and received SFA in excess of their eligibility. Using the total population amount of \$2,091,830, we project the likely questioned costs to be approximately \$41,075. The following assistance listing number was affected by the known and likely questioned costs: 84.063.

Cause:

In discussing these deficiencies with management, they stated that the errors were the result of limited staff in the Office of Financial Aid and human error.

Effect:

These deficiencies may expose the Institution to unnecessary financial strains and shortages. The excess funds disbursed to students for whom verification procedures have not been completed appropriately must be returned to the U.S. Department of Education. Though the Institution may attempt to collect the funds from individual students affected by the errors, these collection efforts could be unsuccessful as the students may no longer attend the Institution and/or fail to repay the funds. Additionally, the Institution was not in compliance with federal regulations concerning performing verification procedures and awarding of SFA funds to students.

Recommendation:

The Institution should follow established procedures to ensure that verification requirements are met and appropriate documentation is maintained on file. Management should also develop and implement a monitoring process to ensure that controls are operating properly. The Institution should contact the U.S. Department of Education regarding resolution of this finding, as well.

Views of Responsible Officials:

We concur with this finding.

B-28

FEDERAL AGENCY: U.S. DEPARTMENT OF EDUCATION (continued)

STATE ENTITY: ATLANTA METROPOLITAN STATE COLLEGE (continued)

2021-021 Improve Controls over the Return of Title IV Funds Process

Compliance Requirement: Special Tests and Provisions

Internal Control Impact: Significant Deficiency

Compliance Impact: Nonmaterial Noncompliance
Federal Awarding Agency: U.S. Department of Education

Pass-Through Entity: None

AL Numbers and Titles: 84.007 – Federal Supplemental Educational

Opportunity Grants

84.033 – Federal Work-Study Program 84.063 – Federal Pell Grant Program 84.268 – Federal Direct Student Loans

Federal Award Number: P007A200964 (Year: 2021), P033A200964

(Year: 2021), P063P203513 (Year: 2021),

P268K213513 (Year: 2021)

Questioned Costs: \$29,734.00

Repeat of Prior Year Findings: 2020-021, 2017-027

Description:

The Institution did not properly perform the Return of Title IV funds process to ensure that unearned Title IV funds were returned in a timely manner.

Background Information:

Student financial assistance, or Title IV, funds are awarded to a student under the assumption that the student will attend school for the entire period for which the assistance is awarded. When a student withdraws, the student may no longer be eligible for the full amount of Title IV funds that the student was originally scheduled to receive. If a recipient of Title IV grant or loan funds withdraws from a school after beginning attendance, the school must perform a Return of Title IV (R2T4) calculation to determine the amount of Title IV assistance earned by the student. Up through the 60% point in each period of enrollment, a pro rata schedule is used to determine the amount of Title IV funds the student has earned at the time of withdrawal. After the 60% point in the period of enrollment, a student is considered to have earned 100% of the Title IV funds the student was scheduled to receive during the period.

The R2T4 calculation is prepared using the following information associated with the period of enrollment:

- The student's Title IV aid information, including amounts disbursed and amounts that could have been disbursed,
- The withdrawal date and scheduled start date, end date, and break days, and

 Institutional charges, including tuition, fees, room, board, books, supplies, materials, and equipment.

In addition, an unofficial withdrawal is one in which the Institution has not received notice from the student that the student has ceased or will cease attending the school. Schools must have a procedure in place to determine when a student who began attendance and received or could have received an initial disbursement of Title IV funds unofficially withdrew. For these unofficial withdrawals, the Institution must also determine a withdrawal date, which may be the midpoint of the period of enrollment or the last date of an academically related activity in which the student participated.

Criteria:

As a recipient of federal awards, the Institution is required to establish and maintain effective internal control over federal awards that provides reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal awards pursuant to Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance), Section 200.303 – Internal Controls.

Provisions included in Title 34 CFR Section 668.22 provide requirements over the treatment of Title IV funds when a student withdraws. The Institution is required to determine the amount of Title IV funds that the student earned as of the student's withdrawal date when a recipient of Title IV funds withdraws from the Institution during a payment period or period of enrollment in which the recipient began attendance. A refund must be returned to Title IV programs when the total amount of the Title IV grant or loan assistance, or both, that the student earned is less than the amount of the Title IV grant and/or loan assistance that was disbursed to the student as of the withdrawal date.

Additionally, provisions included in Title 34 CFR Section 668.22(j) address the timeframe for the return of title IV funds and state "(1) An institution must return the amount of title IV funds for which it is responsible... as soon as possible but no later than 45 days after the date of the institution's determination that the student withdrew... (2) For an institution that is not required to take attendance, an institution must determine the withdrawal date for a student who withdraws without providing notification to the institution no later than 30 days after the end of the earlier of the – (i) Payment period or period of enrollment... (ii) Academic year in which the student withdrew; or (iii) Educational program from which the student withdrew."

Condition:

A sample of 21 students from a population of 105 students who received student financial assistance (SFA) and withdrew from the Institution during the Fall 2020 and Spring 2021 semesters was randomly selected for testing using a non-statistical sampling method. The students' R2T4 calculations were reviewed to ensure that the refunds were calculated and returned in the correct amount to the proper funding agency and/or student in a timely manner. The following deficiencies were noted:

• The refund calculations for five students who withdrew during the Fall 2020 semester could not be provided for review. Two of these students were included on the listing in error as they did not withdraw and earned grades. In addition, one student did not attend during the period in which they were listed as having a R2T4 calculation. Furthermore, though it was determined that one of these students did withdraw but was

eligible to receive their entire financial aid disbursement based upon their withdrawal date, this student was reflected on the Institution's R2T4 listing and should have a calculation on-file.

- The refund calculations for one student who withdrew during the Fall 2020 semester and three students who withdrew during the Spring 2021 semester were calculated incorrectly due to the use of the improper scheduled term end date, scheduled break days and/or institutional charges. Two students were requested to return \$452 less than the required amount to various SFA programs, and two students were requested to return \$1,302 more than the required amount to various SFA programs.
- The proration between the school and student portion of the refund was incorrect for one student who withdrew during the Fall 2020 semester and three students who withdrew during the Spring 2021 semester.
- The amount returned within the student information system did not agree to the Institution's calculation for one student. This caused the student to receive \$601 in excess of their eligibility.
- Funds were not returned to the appropriate grantor programs within the required time frame for eleven of the withdrawn students tested.

A sample of 60 students from a population of 270 students who received SFA for the Fall 2020 and Spring 2021 semesters and withdrew from the Institution but for whom no R2T4 calculation was performed was randomly selected for testing using a non-statistical sampling method. Attendance and withdrawal records were reviewed to determine if a refund should have been calculated for these students. The following deficiencies were noted:

- R2T4 calculations were not performed appropriately for one student who unofficially withdrew during the Fall 2020 semester and 11 students who unofficially withdrew during the Spring 2021 semester. These students should have been required to return a total of \$27,047 to various SFA programs.
- R2T4 calculations were actually performed for an additional 12 students; therefore, the listing of R2T4 calculations provided for review was not accurate. In addition, upon review of these calculations, auditors noted errors as follows:
 - The proration between the school and student portion of the refund was incorrect for one student who withdrew during the Fall 2020 semester.
 - The refund calculations for six students who withdrew during the Fall 2020 semester was calculated incorrectly due to the use of the improper scheduled end date and institutional charges. Five students were requested to return \$1,634 less than the required amount to various SFA programs and one student was requested to return \$170 more than the required amount to various SFA programs.

Questioned Costs:

Upon testing a sample of \$64,349 in financial aid disbursements to students for whom a R2T4 calculation was completed and \$196,065 in financial aid disbursements to students who

withdrew from the Institution but for whom no R2T4 calculation was performed, known questioned costs of \$29,734 were identified for refunds not calculated appropriately or omitted. Using the total population amount of \$1,085,800, we project the likely questioned costs to be approximately \$122,692. The following assistance listing numbers were affected by the known and likely questioned costs: 84.007, 84.063, and 84.268.

Cause:

In discussing these deficiencies with management, they stated that the calculation to identify the 60% completion threshold was not correct and software issues identified in the student information system caused the errors noted above.

Effect:

These deficiencies may expose the Institution to unnecessary financial strains and shortages. The Institution's portion of the refunds that were not calculated correctly must be returned to the U.S. Department of Education. Though the Institution may attempt to collect the funds from individual students affected by the errors, these collection efforts could be unsuccessful as the students may no longer attend the Institution and/or fail to repay the funds. Additionally, not returning unearned Title IV funds to the U.S Department of Education in a timely manner may result in adverse actions and impact the Institution's participation in Title IV programs.

Recommendation:

The Institution should implement procedures to ensure that R2T4 calculations are accurate and that unearned funds are returned to the appropriate accounts in a timely manner in accordance with federal regulations. Management should also develop and implement a monitoring process to ensure that controls are operating properly. The Institution should contact the U.S. Department of Education regarding resolution of the finding, as well.

Views of Responsible Officials:

FEDERAL AGENCY: U.S. DEPARTMENT OF EDUCATION (continued)

STATE ENTITY: ATLANTA METROPOLITAN STATE COLLEGE (continued)

2021-022 Strengthen Controls over Enrollment Reporting

Compliance Requirement: Special Tests and Provisions

Internal Control Impact: Significant Deficiency

Compliance Impact: Nonmaterial Noncompliance
Federal Awarding Agency: U.S. Department of Education

Pass-Through Entity: None

AL Numbers and Titles: 84.063 – Federal Pell Grant Program

84.268 - Federal Direct Student Loans

Federal Award Number: P063P203513 (Year: 2021), P268K213513 (Year:

2021)

Questioned Costs: None Identified

Repeat of Prior Year Finding: 2020-022

Description:

Student enrollment information was not reported to required organizations in a timely and accurate manner.

Background Information:

Institutions are required to report enrollment information under the Federal Pell Grant and Federal Direct Student Loans programs via the National Student Loan Data System (NSLDS). Institutions must review, update, and verify student enrollment statuses, program information, and effective dates periodically throughout the award year. The accuracy and timeliness of enrollment information reported by the Institution impacts its ability to properly administer the various Student Financial Assistance programs.

There are two categories of enrollment information reported to the NSLDS:

- Campus-Level, which includes data related to the student's overall enrollment at an institution's campus, and
- Program-Level, which includes data related to the student's program(s) of attendance.

The NSLDS Enrollment Reporting Guide provides institutions the requirements and guidance for reporting these specific campus-level and program-level enrollment details for students.

Criteria:

As a recipient of federal awards, the Institution is required to establish and maintain effective internal control over federal awards that provides reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal awards pursuant to Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance), Section 200.303 – Internal Controls.

Regarding the enrollment reporting process, provisions included in Title 34 Section CFR 685.309(b) state that "(1) Upon receipt of an enrollment report from the Secretary, a school must update all information included in the report and return the report to the Secretary – (i) In the manner and format prescribed by the Secretary; and (ii) Within the timeframe prescribed by the Secretary. (2) Unless it expects to submit its next updated enrollment report to the Secretary within the next 60 days, a school must notify the Secretary within 30 days after the date the school discovers that – (i) ... the student has ceased to be enrolled on at least a half-time basis for the period." In addition, per the NSLDS Enrollment Reporting Guide issued by the U.S. Department of Education, students who have received Federal Pell Grant Program funds will be included on the NSLDS roster file received by each institution and are subject to the same enrollment reporting requirements as those students who have received a loan under the William D. Ford Federal Direct Loan Program.

Condition:

A sample of 60 students who received Federal Pell Grant Program and Federal Direct Student Loan funds and had a reduction or increase in attendance level, graduated, withdrew, dropped out, or enrolled but never attended during the audit period was randomly selected for testing using a non-statistical sampling method. NSLDS Enrollment Detail information was reviewed for each student to ensure that the Institution accurately reported significant data elements under both the Campus-Level and Program-Level Record. The following deficiencies were identified:

- For 38 students, the Enrollment Effective Date and/or Program Enrollment Effective Date reflected on the Campus-Level Record and/or Program-Level Record, respectively, did not agree to the date on which the current enrollment status reported for the student was first effective.
- For 26 students, the Enrollment Status and/or Program Enrollment Status reflected on the Campus-Level and/or Program Level Record, respectively, was not appropriate based upon the student's enrollment status as of the reporting date.
- For four students, the Certification Date reflected on the Campus-Level Record was not within 60 days of the students' change in enrollment.
- For one student, the Credential Level reflected on the Program-Level Record did not agree to the level of credential that the student would receive for the program the student was attending.
- For six students, the Published Program Length Measurement and/or Published Program Length reflected on the Program-Level Record was not appropriate based upon review of the Institution's catalog.
- For two students, the Program Begin Date reflected on the Program-Level Record did not agree with the information reported in the student information system.

Additionally, a sample of 21 students from a population of 105 students who received student financial assistance (SFA) and withdrew from the Institution during the Fall 2020 and Spring 2021 semesters was randomly selected for testing using a non-statistical sampling method. The students' enrollment statuses were reviewed to ensure that their withdrawn status was

submitted to the NSLDS. For nine students, the withdrawn enrollment status was not submitted to the NSLDS appropriately.

Cause:

In discussing these deficiencies with management, they stated the code for three quarters enrollment status was missing in the Banner Validation Table. In addition, human errors in which individuals changed status start dates in the enrollment reports unintentionally occurred.

Effect:

The Institution was not in compliance with federal regulations concerning enrollment reporting requirements. Additionally, if enrollment statuses are not submitted appropriately to NSLDS by the Institution, loan interest subsidies may be negatively affected, deferments of Federal Direct Student Loans may be continued in error, loan repayment dates could be recorded incorrectly, and the compilation of data associated with other Title IV aid programs could be adversely affected.

Recommendation:

The Institution should follow established policies and procedures to ensure that all changes in student enrollment statuses are reported in accordance with timeframes prescribed by the U.S. Department of Education. Additionally, management should develop and implement a monitoring process to ensure that controls are operating properly.

Views of Responsible Officials:

FEDERAL AGENCY: U.S. DEPARTMENT OF EDUCATION (continued)

STATE ENTITY: DALTON STATE COLLEGE

2021-023 Strengthen Segregation of Duties

Compliance Requirement: Activities Allowed or Unallowed

Eligibility

Internal Control Impact: Significant Deficiency

Compliance Impact: Nonmaterial Noncompliance
Federal Awarding Agency: U.S. Department of Education

Pass-Through Entity: None

AL Numbers and Titles: 84.007 – Federal Supplemental Educational

Opportunity Grants

84.033 – Federal Work-Study Program
84.063 – Federal Pell Grant Program
84.268 – Federal Direct Student Loans

Federal Award Number: P007A200990 (Year: 2021), P033A200990

(Year: 2021), P063P202464 (Year: 2021),

P268K212464 (Year: 2021)

Questioned Costs: None Identified

Description:

The Institution should strengthen segregation of duties over student financial aid within the student information system.

Background Information:

The Institution relies extensively on the student information system (the system) to create student accounts, award student financial assistance, and disburse this aid to eligible students. Controls over the system are essential for the reliability and integrity of student information and to protect student data from manipulation, corruption, or loss.

Criteria:

As a recipient of federal awards, the Institution is required to establish and maintain effective internal control over federal awards that provides reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal awards pursuant to Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance), Section 200.303 – Internal Controls.

Specifically, provisions included in Title 34 CFR Section 668.16 state that "to begin and to continue to participate in any Title IV, HEA [Higher Education Act] program, an institution shall demonstrate to the Secretary that the institution is capable of adequately administering

that program. The Secretary considers an institution to have that administrative capability if the institution... (c)(1) Administers Title IV, HEA programs with adequate checks and balances in its system of internal controls; and (2) Divides the functions of authorizing payments and disbursing or delivering funds so that no office has responsibility for both functions with respect to any particular student aided under the programs."

Condition:

Our review of the student financial aid business process functions established within the system and related user permissions revealed the following deficiency:

• We found that 24 system users had the ability to control the complete cycle of the student financial aid operation. These users had system functions that gave them the capability to create student accounts, award student financial assistance, and disburse this aid to eligible students.

The details related to this deficiency has been provided to Institution management in accordance with Official Code of Georgia Annotated (OCGA) §50-6-9.

Cause:

We were informed by management that the lack of segregation of duties was the result of a staff shortage. In addition, a review of user account permissions and segregation of duties was not performed appropriately across the entire student and financial services function during the fiscal year.

Effect:

The deficiency in segregation of duties resulted in noncompliance with federal regulations specific to student financial assistance programs and the Uniform Guidance. In addition, this deficiency represents noncompliance with University System of Georgia directives. Furthermore, failure to maintain adequate internal controls related to segregation of duties could result in the loss or misappropriation of assets, which could go undetected.

Recommendation:

The institution should improve internal controls over the student financial aid business process functions, specifically regarding segregation of duties. Management should follow established policies and procedures to ensure the integrity and accuracy of the information used within the financial statements and as part of awarding financial assistance to students. Additionally, management should ensure that segregation of duties reviews are completed as recommended by the University System of Georgia. Furthermore, the Institution should develop and implement a monitoring process to ensure that controls are followed appropriately.

Views of Responsible Officials:

FEDERAL AGENCY: U.S. DEPARTMENT OF EDUCATION (continued)

STATE ENTITY: DALTON STATE COLLEGE (continued)

2021-024 Improve Controls over the Return of Title IV Funds Process

Compliance Requirement: Special Tests and Provisions

Internal Control Impact: Significant Deficiency

Compliance Impact: Nonmaterial Noncompliance
Federal Awarding Agency: U.S. Department of Education

Pass-Through Entity: None

AL Numbers and Titles: 84.007 – Federal Supplemental Educational

Opportunity Grants

84.033 – Federal Work-Study Program 84.063 – Federal Pell Grant Program 84.268 – Federal Direct Student Loans

Federal Award Number: P007A200990 (Year: 2021), P033A200990

(Year: 2021), P063P202464 (Year: 2021),

P268K212464 (Year: 2021)

Questioned Costs: \$9,422.00

Description:

The Institution did not properly perform the Return of Title IV funds process to ensure that unearned Title IV funds were returned in a timely manner.

Background Information:

Student financial assistance, or Title IV, funds are awarded to a student under the assumption that the student will attend school for the entire period for which the assistance is awarded. When a student withdraws, the student may no longer be eligible for the full amount of Title IV funds that the student was originally scheduled to receive. If a recipient of Title IV grant or loan funds withdraws from a school after beginning attendance, the school must perform a Return of Title IV (R2T4) calculation to determine the amount of Title IV assistance earned by the student. Up through the 60% point in each period of enrollment, a pro rata schedule is used to determine the amount of Title IV funds the student has earned at the time of withdrawal. After the 60% point in the period of enrollment, a student is considered to have earned 100% of the Title IV funds the student was scheduled to receive during the period.

The R2T4 calculation is prepared using the following information associated with the period of enrollment:

- The student's Title IV aid information, including amounts disbursed and amounts that could have been disbursed.
- The withdrawal date and scheduled start date, end date, and break days, and

 Institutional charges, including tuition, fees, room, board, books, supplies, materials, and equipment.

In addition, an unofficial withdrawal is one in which the Institution has not received notice from the student that the student has ceased or will cease attending the school. Schools must have a procedure in place to determine when a student who began attendance and received or could have received an initial disbursement of Title IV funds officially withdrew. For these unofficial withdrawals, the Institution must also determine a withdrawal date, which may be the midpoint of the period of enrollment or the last date of an academically related activity in which the student participated.

Criteria:

As a recipient of federal awards, the Institution is required to establish and maintain effective internal control over federal awards that provides reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal awards pursuant to Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance), Section 200.303 – Internal Controls.

Provisions included in Title 34 CFR Section 668.22 provide requirements over the treatment of Title IV funds when a student withdraws. The Institution is required to determine the amount of Title IV funds that the student earned as of the student's withdrawal date when a recipient of Title IV funds withdraws from the Institution during a payment period or period of enrollment in which the recipient began attendance. A refund must be returned to Title IV programs when the total amount of the Title IV grant or loan assistance, or both, that the student earned is less than the amount of the Title IV grant and/or loan assistance that was disbursed to the student as of the withdrawal date.

Additionally, provisions included in Title 34 CFR Section 668.22(j) address the timeframe for the return of title IV funds and state "(1) An institution must return the amount of title IV funds for which it is responsible... as soon as possible but no later than 45 days after the date of the institution's determination that the student withdrew... (2) For an institution that is not required to take attendance, an institution must determine the withdrawal date for a student who withdraws without providing notification to the institution no later than 30 days after the end of the earlier of the – (i) Payment period or period of enrollment... (ii) Academic year in which the student withdrew; or (iii) Educational program from which the student withdrew."

Condition:

A sample of 15 students from a population of 103 students who received student financial assistance (SFA) and withdrew from the Institution during the Fall 2020 and Spring 2021 semesters was randomly selected for testing using a non-statistical sampling method. The students' R2T4 calculations were reviewed to ensure that the refunds were calculated and returned in the correct amount to the proper funding agency and/or student in a timely manner. The following deficiencies were noted:

• The refund calculations for three students who withdrew during the Fall 2020 semester and one student who withdrew during the Spring 2021 semester were calculated incorrectly due to the use of inappropriate rounding in the calculation of percentage of Title IV aid earned and the use of incorrect data associated with the amount of funds that could have been disbursed. One student was requested to return \$564 less than the

required amount to various SFA programs, and three students were requested to return \$3,419 more than the required amount to various SFA programs.

• The proration between the school and student portion of the refund was incorrect for one student who withdrew during the Spring 2021 semester.

A sample of 40 students from a population of 248 students who received SFA for the Fall 2020 and Spring 2021 semesters and withdrew from the Institution but for whom no R2T4 calculation was performed was randomly selected for testing using a non-statistical sampling method. Attendance and withdrawal records were reviewed to determine if a refund should have been calculated for these students. The following deficiencies were noted:

- R2T4 calculations were not performed appropriately for four students who unofficially
 withdrew during the Fall 2020 semester and seven students who unofficially withdrew
 during the Spring 2021 semester. Ten of these students should have been required to
 return a total of \$8,858 to various SFA programs, and one student was owed a postwithdrawal disbursement of \$254
- R2T4 calculations were actually performed for an additional four students; therefore, the listing of R2T4 calculations provided for review was not accurate.

Questioned Costs:

Upon testing a sample of \$35,914 in financial aid disbursements to students for whom a R2T4 calculation was completed and \$97,966 in financial aid disbursements to students who withdrew from the Institution but for whom no R2T4 calculation was performed, known questioned costs of \$9,422 were identified for refunds not calculated appropriately or omitted. Using the total population amount of \$879,959, we project the likely questioned costs to be approximately \$65,094. The following assistance listing numbers were affected by the known and likely questioned costs: 84.063 and 84.268.

Cause:

In discussing these deficiencies with management, they stated that human errors and inappropriate rounding within the student information system caused many of the R2T4 calculations performed to be inaccurate. In addition, for the R2T4 calculations that were not performed as required for unofficially withdrawn students, the student statuses were not updated from eligible to register to withdrawn within the student information system appropriately.

Effect:

These deficiencies may expose the Institution to unnecessary financial strains and shortages. The Institution's portion of the refunds that were not calculated correctly must be returned to the U.S. Department of Education. Though the Institution may attempt to collect the funds from individual students affected by the errors, these collection efforts could be unsuccessful as the students may no longer attend the Institution and/or fail to repay the funds. Additionally, not returning unearned Title IV funds to the U.S Department of Education in a timely manner may result in adverse actions and impact the Institution's participation in Title IV programs.

Recommendation:

The Institution should follow established procedures to ensure that R2T4 calculations are accurate and that unearned funds are returned to the appropriate accounts in a timely manner in accordance with federal regulations. Management should also develop and implement a monitoring process to ensure that controls are operating properly. The Institution should contact the U.S. Department of Education regarding resolution of the finding, as well.

Views of Responsible Officials:

FEDERAL AGENCY: U.S. DEPARTMENT OF EDUCATION (continued)

STATE ENTITY: DALTON STATE COLLEGE (continued)

2021-025 Strengthen Controls over Enrollment Reporting

Compliance Requirement: Special Tests and Provisions

Internal Control Impact: Significant Deficiency

Compliance Impact: Nonmaterial Noncompliance
Federal Awarding Agency: U.S. Department of Education

Pass-Through Entity: None

AL Numbers and Titles: 84.063 – Federal Pell Grant Program

84.268 - Federal Direct Student Loans

Federal Award Number: P063P202464 (Year: 2021), P268K212464 (Year:

2021)

Questioned Costs: None Identified

Description:

Student enrollment information was not reported to required organizations in a timely and accurate manner.

Background Information:

Institutions are required to report enrollment information under the Federal Pell Grant and Federal Direct Student Loans programs via the National Student Loan Data System (NSLDS). Institutions must review, update, and verify student enrollment statuses, program information, and effective dates periodically throughout the award year. The accuracy and timeliness of enrollment information reported by the Institution impacts its ability to properly administer the various Student Financial Assistance programs.

There are two categories of enrollment information reported to the NSLDS:

- Campus-Level, which includes data related to the student's overall enrollment at an institution's campus, and
- Program-Level, which includes data related to the student's program(s) of attendance.

The NSLDS Enrollment Reporting Guide provides institutions the requirements and guidance for reporting these specific campus-level and program-level enrollment details for students.

Criteria:

As a recipient of federal awards, the Institution is required to establish and maintain effective internal control over federal awards that provides reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal awards pursuant to Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance), Section 200.303 – Internal Controls.

Regarding the enrollment reporting process, provisions included in Title 34 Section CFR 685.309(b) state that "(1) Upon receipt of an enrollment report from the Secretary, a school must update all information included in the report and return the report to the Secretary – (i) In the manner and format prescribed by the Secretary; and (ii) Within the timeframe prescribed by the Secretary. (2) Unless it expects to submit its next updated enrollment report to the Secretary within the next 60 days, a school must notify the Secretary within 30 days after the date the school discovers that – (i) ... the student has ceased to be enrolled on at least a half-time basis for the period." In addition, per the NSLDS Enrollment Reporting Guide issued by the U.S. Department of Education, students who have received Federal Pell Grant Program funds will be included on the NSLDS roster file received by each institution and are subject to the same enrollment reporting requirements as those students who have received a loan under the William D. Ford Federal Direct Loan Program.

Condition:

A sample of 40 students who received Federal Pell Grant Program and/or Federal Direct Student Loan funds and had a reduction or increase in attendance level, graduated, withdrew, dropped out, or enrolled but never attended during the audit period was randomly selected for testing using a non-statistical sampling method. NSLDS Enrollment Detail information was reviewed for each student to ensure that the Institution accurately reported significant data elements under both the Campus-Level and Program-Level Record. The following deficiencies were identified:

- For nine students, the Enrollment Effective Date and/or Program Enrollment Effective Date reflected on the Campus-Level Record and/or Program-Level Record, respectively, did not agree to the date on which the current enrollment status reported for the student was first effective.
- For 13 students, the Enrollment Status and/or Program Enrollment Status reflected on the Campus-Level and/or Program Level Record, respectively, was not appropriate based upon the student's enrollment status as of the reporting date.
- For one student, the Certification Date reflected on the Campus-Level Record was not within 60 days of the students' change in enrollment.
- For one student, enrollment information related to the Campus-Level and Program-Level Record was not reported to NSLDS at all.

Cause:

In discussing these deficiencies with management, they stated that the code for the threequarter-time enrollment status was missing in the student information system validation table and led to the deficiencies noted.

Effect:

The Institution was not in compliance with federal regulations concerning enrollment reporting requirements. Additionally, if enrollment statuses are not submitted appropriately to NSLDS by the Institution, loan interest subsidies may be negatively affected, deferments of Federal Direct Student Loans may be continued in error, loan repayment dates could be recorded incorrectly, and the compilation of data associated with other Title IV aid programs could be adversely affected.

Recommendation:

The Institution should follow established policies and procedures to ensure that all changes in student enrollment statuses are reported in accordance with timeframes prescribed by the U.S. Department of Education. Additionally, management should develop and implement a monitoring process to ensure that controls are operating properly.

Views of Responsible Officials:

FEDERAL AGENCY: U.S. DEPARTMENT OF EDUCATION (continued)

STATE ENTITY: SOUTH GEORGIA STATE COLLEGE

2021-026 Improve Controls over the Awarding Process

Compliance Requirement: Eligibility

Internal Control Impact: Significant Deficiency

Compliance Impact: Nonmaterial Noncompliance
Federal Awarding Agency: U.S. Department of Education

Pass-Through Entity: None

AL Numbers and Titles: 84.007 – Federal Supplemental Educational

Opportunity Grants

84.033 – Federal Work-Study Program 84.063 – Federal Pell Grant Program 84.268 – Federal Direct Student Loans

Federal Award Number: P007A201042 (Year: 2021), P033A201042 (Year:

2021), P063P201316 (Year: 2021), P268K211316

(Year: 2021)

Questioned Costs: \$6,095.00

Description:

The Institution's Student Financial Aid Office improperly determined the Student Financial Assistance award amounts for eligible students and awarded amounts to ineligible students.

Background Information:

To receive student financial assistance (SFA), students must complete a Free Application for Federal Student Aid (FAFSA). Once the FAFSA is processed, an Institutional Student Information Record (ISIR) is provided to the Institution. Among other things, the ISIR contains the applicant's Expected Family Contribution (EFC) and helps determine student eligibility, award amounts, and disbursements.

The following types of student financial aid (SFA) was awarded and disbursed to students at the Institution:

- Federal Pell Grant (Pell) The Federal Pell Grant program provides grants to eligible students enrolled in eligible undergraduate programs and certain eligible post-baccalaureate teacher certificate programs and is intended to provide the foundation of financial aid. Maximum and minimum Pell Grant awards are established by statute, but the amount for which each student is eligible is based on Pell Grant Payment and Disbursement Schedules published every year by the U.S. Department of Education (ED).
- Federal Supplemental Educational Opportunity Grants (FSEOG) The FSEOG

program provides grants to eligible undergraduate students. Priority for FSEOG awards is given to Pell Grant recipients who have the lowest EFC.

- Federal Work-Study (FWS) The FWS program provides part-time employment to eligible undergraduate and graduate students who need earnings to help meet the costs of postsecondary education.
- Federal Direct Student Loans The Direct Loan Program makes Direct Subsidized Loans and Direct Unsubsidized Loans to eligible students, and Direct PLUS Loans to eligible graduate or professional students or to eligible parents of eligible dependent undergraduate students, to pay for the cost of attending postsecondary educational institutions. Each student's ISIR, along with other information, is used by the Institution to originate the student's Direct Loan.

Once financial aid is awarded and disbursed to students, those students are required to maintain satisfactory academic progress (SAP) as defined by the Institution's published standards. These published standards must include a review of a qualitative component, which is typically based upon grade point average (GPA), and a quantitative component, which is based upon successful completion of attempted coursework at a specified pace within a maximum timeframe. SAP must be evaluated at least once per academic year, and if at the time of each evaluation, the student has not maintained SAP, they are no longer eligible to receive SFA.

Criteria:

As a recipient of federal awards, the Institution is required to establish and maintain effective internal control over federal awards that provides reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal awards pursuant to Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance), Section 200.303 – Internal Controls.

All ED programs are authorized by Title IV of the Higher Education Act (HEA) of 1965, as amended (20 USC 1001 *et seq.*). In addition, provisions included in Title 34 CFR Section 668 provide general provisions for administering SFA programs and Title 34 CFR Sections 675, 676, 685, and 690 provide eligibility and other related program requirements that are specific to the FWS Program, FSEOG Program, Federal Direct Student Loans Program, and Federal Pell Grant Program, respectively.

Condition:

A sample of 25 students from a population of 1,425 students who received student financial assistance funds was randomly selected for testing using a non-statistical sampling method. Student financial assistance files were reviewed to ensure that financial assistance was properly calculated and disbursed to eligible students. The following deficiencies were identified:

- While no over disbursements occurred, one student was awarded more need-based financial aid than their financial aid need.
- One student was not in compliance with the Institution's published Satisfactory Academic Progress (SAP) policies. The student did not meet the qualitative requirement of SAP, which resulted in over disbursements totaling \$6,095.

Questioned Costs:

Upon testing a sample of \$221,471 in financial aid disbursements, known questioned costs of \$6,095 were identified for the student who received student financial assistance in excess of their eligibility. Using the total population amount of \$9,104,968, we project the likely questioned costs to be approximately \$250,573. The following assistance listing numbers were affected by the known and likely questioned costs: 84.063 and 84.268.

Cause:

In discussing these deficiencies with management, they stated a grade was reported late by a faculty member and was not available to be included in the SAP Calculation at the end of the students first semester at SGSC. If the grade had been present, the student would have been placed on financial aid warning instead of in good standing. At the end of the following semester, the student should have been placed on financial aid suspension but was only placed on financial aid warning due to the incorrect calculation during the prior semester. This resulted in the student receiving \$6,095 is funds when they were ineligible for aid for the semester.

Effect:

These deficiencies may expose the Institution to unnecessary financial strains and shortages. The funds disbursed to students in excess of their eligibility must be returned to the U.S. Department of Education. Though the Institution may attempt to collect the funds from individual students affected by the errors, these collection efforts could be unsuccessful as the students may no longer attend the Institution and/or fail to repay the funds. Additionally, the Institution was not in compliance with federal regulations concerning awarding of SFA funds to students.

Recommendation:

The Institution should review its processes and procedures for determining each student's financial aid eligibility. Where vulnerable, the Institution should develop and/or modify its policies and procedures to ensure that correct amounts will be awarded to students in conformity with federal requirements. Additionally, the Institution should develop and implement a monitoring process to ensure that controls are functioning properly. The Institution should also contact the U.S. Department of Education regarding resolution of this finding.

Views of Responsible Officials:

FEDERAL AGENCY: U.S. DEPARTMENT OF EDUCATION (continued)

STATE ENTITY: GWINNETT TECHNICAL COLLEGE

2021-027 Strengthen Controls over the Return of Title IV Funds Process

Compliance Requirement: Special Tests and Provisions

Internal Control Impact: Significant Deficiency

Compliance Impact: Nonmaterial Noncompliance
Federal Awarding Agency: U.S. Department of Education

Pass-Through Entity: None

AL Numbers and Titles: 84.007 – Federal Supplemental Educational

Opportunity Grants

84.033 – Federal Work-Study Program 84.063 – Federal Pell Grant Program 84.268 – Federal Direct Student Loans

Federal Award Number: P007A206421 (Year: 2021), P033A206421 (Year:

2021), P063P204114 (Year: 2021), P268K214114

(Year: 2021)

Questioned Costs: \$5,861.00

Description:

The Institution did not properly perform the Return of Title IV funds process to ensure that unearned Title IV funds were returned in a timely manner.

Background Information:

Student financial assistance, or Title IV, funds are awarded to a student under the assumption that the student will attend school for the entire period for which the assistance is awarded. When a student withdraws, the student may no longer be eligible for the full amount of Title IV funds that the student was originally scheduled to receive. If a recipient of Title IV grant or loan funds withdraws from a school after beginning attendance, the school must perform a Return of Title IV (R2T4) calculation to determine the amount of Title IV assistance earned by the student. Up through the 60% point in each period of enrollment, a pro rata schedule is used to determine the amount of Title IV funds the student has earned at the time of withdrawal. After the 60% point in the period of enrollment, a student is considered to have earned 100% of the Title IV funds the student was scheduled to receive during the period.

The R2T4 calculation is prepared using the following information associated with the period of enrollment:

- The student's Title IV aid information, including amounts disbursed and amounts that could have been disbursed.
- The withdrawal date and scheduled start date, end date, and break days, and

• Institutional charges, including tuition, fees, room, board, books, supplies, materials, and equipment.

Criteria:

As a recipient of federal awards, the Institution is required to establish and maintain effective internal control over federal awards that provides reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal awards pursuant to Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance), Section 200.303 – Internal Controls.

Provisions included in Title 34 CFR Section 668.22 provide requirements over the treatment of Title IV funds when a student withdraws. The Institution is required to determine the amount of Title IV funds that the student earned as of the student's withdrawal date when a recipient of Title IV funds withdraws from the Institution during a payment period or period of enrollment in which the recipient began attendance. A refund must be returned to Title IV programs when the total amount of the Title IV grant or loan assistance, or both, that the student earned is less than the amount of the Title IV grant and/or loan assistance that was disbursed to the student as of the withdrawal date.

Additionally, provisions included in Title 34 CFR Section 668.22(j) address the timeframe for the return of title IV funds and state "(1) An institution must return the amount of title IV funds for which it is responsible... as soon as possible but no later than 45 days after the date of the institution's determination that the student withdrew... (2) For an institution that is not required to take attendance, an institution must determine the withdrawal date for a student who withdraws without providing notification to the institution no later than 30 days after the end of the earlier of the – (i) Payment period or period of enrollment... (ii) Academic year in which the student withdrew; or (iii) Educational program from which the student withdrew."

Condition:

A sample of 40 students from a population of 1,002 students who received student financial assistance (SFA) and withdrew from the Institution during the Fall 2020 and Spring 2021 semesters was randomly selected for testing using a non-statistical sampling method. The students' R2T4 calculations were reviewed to ensure that the refunds were calculated and returned in the correct amount to the proper funding agency and/or student in a timely manner. The following deficiencies were noted:

- The refund calculation for one student who withdrew during the Fall 2020 semester was calculated incorrectly due to the use of the improper withdrawal date. This student was requested to return \$1,160 less than the required amount to various SFA programs.
- The proration between the school and student portion of the refund was incorrect for one student who withdrew during the Fall 2020 semester.
- The amount returned within the student information system did not agree to the Institution's calculation for one student.
- The refund amounts for one student who withdrew during the Fall 2020 semester and one student who withdrew during the Spring 2021 semester were calculated

appropriately but were never returned to the appropriate grantor programs. The Institution did not report or return \$4,701 as required to various SFA programs.

- Funds were not returned to the appropriate grantor programs within the required time frame for four of the withdrawn students tested.
- In 20 instances, the student's withdrawal was never reported to the National Student Loan Data System (NSLDS).

Questioned Costs:

Upon testing a sample of \$92,853 in financial aid disbursements to students for whom a R2T4 calculation was completed, known questioned costs of \$5,861 were identified for refunds not adequately supported or calculated incorrectly. Using the total population amount of \$2,708,189, we project the likely questioned costs to be approximately \$170,931. The following assistance listing numbers were affected by the known and likely questioned costs: 84.007, 84.063 and 84.268.

Cause:

In discussing these deficiencies with management, they stated the midpoint of the term was not used for the withdrawal date appropriately for one student. In addition, student refund amounts were not returned to the U.S. Department of Education properly due to a lack of training associated with the tracking log in the Common Origination and Disbursement system for Direct Loans. Furthermore, an error in the upload process used to capture unofficial withdrawals led to the failure to report this withdrawal activity to the NSLDS.

Effect:

This deficiency may expose the Institution to unnecessary financial strains and shortages. The Institution's portion of the refunds that were not calculated correctly or never reported must be returned to the U.S. Department of Education. Though the Institution may attempt to collect the funds from individual students affected by the errors, these collection efforts could be unsuccessful as the students may no longer attend the Institution and/or fail to repay the funds. Additionally, not returning unearned Title IV funds to the U.S Department of Education in a timely manner may result in adverse actions and impact the Institution's participation in Title IV programs.

Recommendation:

The Institution should follow established procedures to ensure that R2T4 calculations are accurate and that unearned funds are returned to the appropriate accounts in a timely manner in accordance with federal regulations. Management should also develop and implement a monitoring process to ensure that controls are operating properly. The Institution should contact the U.S. Department of Education regarding resolution of the finding, as well.

Views of Responsible Officials:

FEDERAL AGENCY: U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

STATE ENTITY: DEPARTMENT OF COMMUNITY HEALTH

2021-028 Improve Controls over Managed Care Organization Financial Audits

Compliance Requirement: Special Tests and Provisions

Internal Control Impact: Significant Deficiency

Compliance Impact: Nonmaterial Noncompliance

Federal Awarding Agency: U.S. Department of Health and Human Services

Pass-Through Entity: None

AL Numbers and Titles: 93.767 – Children's Health Insurance Program

93.778 - Medical Assistance Program (Medicaid:

Title XIX)

93.778 - COVID -19 - Medical Assistance

Program (Medicaid: Title XIX)

Federal Award Number: 2005GA5MAP (Year 2020), 2105GA5MAP (Year

2021), 2005GA5021 (Year: 2020), 2105GA5021

(Year: 2021)

Questioned Costs: None Identified

Description:

The Department of Community Health does not have adequate controls in place to ensure the required managed care financial audits are being conducted and the results of the required periodic audits are posted on the State's website.

Background Information:

The Department of Community Health (DCH) administers the State's Medicaid program that provides payments for medical assistance to low-income individuals. Medicaid is one of Georgia's largest public assistance programs with federal and state funds totaling approximately \$12 billion for fiscal year 2021. The DCH is also responsible for administering the Children's Health Insurance Program (CHIP) that provides child medical coverage to low-income families who exceed Medicaid income limits.

The State may use managed care to deliver Medicaid and CHIP benefits and services. The DCH partners with private managed care organizations (MCO) that provide health services to members of Medicaid. Partnering with multiple organizations provides members with a choice of various health plans and allows them to choose the option that best fits their needs.

Criteria:

As a recipient of federal awards, the DCH is required to establish and maintain effective internal control over federal awards that provides reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal awards pursuant to Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform*

Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance), Section 200.303 – Internal Controls.

Pursuant to Title 42 CFR Section 438.3(m), the contract between the State and an MCO must require MCOs to submit audited financial reports specific to the Medicaid contract on an annual basis. The audit must be conducted in accordance with generally accepted accounting principles and generally accepted auditing standards.

Additionally, pursuant to 42 CFR Section 438.602(e) and (g) and 42 CFR 457.1285, the DCH is required to conduct, or contract for an independent audit of the accuracy, truthfulness, and completeness of the encounter and financial data submitted by, or on behalf of, each MCO at least once every three years. The results of the periodic audits are required to be posted on the State's website.

Condition:

Our review of the MCO annual audited financial report submissions specific to Medicaid disclosed that two out of four audited financial reports were not obtained by the DCH until after the auditors had requested the reports for review. Furthermore, we noted the contracts between the DCH and the MCOs do not have a clause requiring the MCOs to submit their audited financial statements to the DCH.

In addition, although the periodic independent audits of the accuracy, truthfulness, and completeness of the encounter and financial data submitted by, or on behalf of, each MCO were conducted, there was no evidence that the results of these four required periodic audits had been posted on the State's website as required by federal regulations.

Cause:

There was no clause in the contracts or procedure in place to ensure that each MCO submits audited financial reports in timely manner to the DCH in accordance with Medicaid regulations. Additionally, the DCH does not have procedures in place to ensure the results of the periodic audits are being posted to the State's website.

Effect:

The deficiency in internal controls over monitoring the MCOs' audited financial statements increases the likelihood that inappropriate uses of Medicaid and CHIP funds may occur and not be detected by management in a timely manner. Furthermore, noncompliance with federal regulations may result in the grantor penalizing the DCH for noncompliance by suspending or terminating the award or withholding future awards.

Recommendation:

The DCH should revise the current contracts with MCOs to include a clause requiring MCOs to submit on an annual basis, to the DCH, audited financial reports specific to the Medicaid contract. In addition, the DCH should implement policies and procedures to ensure the obtention of the required MCOs audited financial reports and that the results of the periodic audits are posted to the State's website.

Views of Responsible Officials:

FEDERAL AGENCY: U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES (continued)

STATE ENTITY: DEPARTMENT OF COMMUNITY HEALTH (continued)

2021-029 Improve Controls over Medicaid Payments after Date of Death

Compliance Requirement: Activities Allowed or Unallowed

Allowable Costs/Cost Principles

Internal Control Impact: Significant Deficiency

Compliance Impact: Nonmaterial Noncompliance

Federal Awarding Agency: U.S. Department of Health and Human Services

Pass-Through Entity: None

AL Numbers and Titles: 93.778 - Medical Assistance Program (Medicaid:

Title XIX)

93.778 - COVID -19 - Medical Assistance

Program (Medicaid: Title XIX)

Federal Award Number: 2005GA5MAP (Year 2020), 2105GA5MAP (Year

2021)

Questioned Costs: \$132,069.00

Repeat of Prior Year Finding: 2020-025, 2019-022

Description:

The Department of Community Health made improper payments to Medicaid providers after beneficiaries' deaths.

Background Information:

The Department of Community Health (DCH) administers the State's Medicaid program that provides payments for medical assistance to low-income individuals. Medicaid is one of Georgia's largest public assistance programs with federal and state funds totaling approximately \$12 billion for fiscal year 2021.

The Social Security Administration (SSA) maintains the national record of death information called the Death Master File (DMF). The DMF is provided to States via a data exchange agreement. The DMF interfaces with the Georgia Medicaid Management Information System (GAMMIS) to update the beneficiary profiles. Additionally, the State Office of Vital Records submits an electronic file updated with the date of death that also interfaces with GAMMIS. The DCH has a process in place to identify when a beneficiary's profile is updated with the date of death and to reverse payments to managed-care organizations for claims made after the beneficiary's death.

As part of our fiscal year 2021 audit, we followed up on the DCH's efforts to implement corrective action plans in response to the prior year findings in which we reported that the DCH made improper payments to Medicaid providers after beneficiaries' deaths. However, the DCH

was unable to fully implement their corrective action plan and apply modifications to GAMMIS prior to fiscal year-end.

Criteria:

As a recipient of federal awards, the DCH is required to establish and maintain effective internal control over federal awards that provides reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal awards pursuant to Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance), Section 200.303 – Internal Controls.

Additionally, the Uniform Guidance, Section 200.53 - Improper payments states: *Improper payment* means any payment that should not have been made or that was made in an incorrect amount (including overpayments and underpayments) under statutory, contractual, administrative, or other legally applicable requirements. An *improper payment* includes any payment to an ineligible party, any payment for an ineligible good or service, any duplicate payment, any payment for a good or service not received (except for such payments where authorized by law), any payment that does not account for credit for applicable discounts, and any payment where insufficient or lack of documentation prevents a reviewer from discerning whether a payment was proper.

Pursuant to Title 42 CFR Part 433, *State Fiscal Administration*, *Subpart F – Refunding of Federal Share of Medicaid Overpayments to Providers* Section 433.304, an overpayment means the amount paid by a Medicaid agency to a provider which is in excess of the amount that is allowable for services furnished. Because medically necessary services cannot be provided after a beneficiaries' death, no medical services are allowable after a beneficiaries' death and any payment to a provider would result in an overpayment.

Condition:

Our audit of the Medicaid program revealed that improper payments were made to Medicaid providers after beneficiaries' deaths. Using data analytics, we compared the DMF to claims made during the fiscal year to identify claims made after the date of death. We identified a total of 1,025 claims that were paid to providers for 243 unique members after the date of death. We used a nonstatistical sampling method to select a random sample of 60 claims from this population and tested the sample along with 12 individually significant items to determine if the claims were for services provided before the date of death. We found that the DCH made payments to providers for 72 Medicaid claims with service dates after the date of death resulting in overpayments in which the funds were not recouped.

Questioned Costs:

Known questioned costs of \$132,069 were identified for benefit payments made to providers for the 72 Medicaid claims with service dates after beneficiaries' deaths. Because all benefit payments tested were deemed unallowable, we project the likely questioned costs to be the entire population of claims paid to providers after the date of death, which totaled \$196,207. The Federal and State share of likely questioned costs is approximately \$143,171 and \$53,036, respectively.

Cause:

System modifications that the DCH requested to be made by its third-party vendor within GAMMIS, which should have prohibited payments from being made for dates of service after a member's date of death, were implemented during the audit period. However, upon subsequent review the DCH identified a defect with the quarterly automated date of death claims adjustments process and determined additional changes are needed to prohibit payments from being made for dates of service after a member's date of death.

Effect:

The improper Medicaid payments resulted in noncompliance with federal regulations and questioned costs. Weaknesses in controls over Medicaid payments also increase the risk of improper payments due to error or fraud that may need further investigation. In addition, grant provisions allow the grantor to penalize the DCH for noncompliance by suspending or terminating the award or withholding future awards.

Recommendation:

The DCH management should continue to dedicate the necessary resources and execute their plan to ensure that modifications to the date of death processes within GAMMIS are implemented appropriately and that Medicaid benefit payments to providers are not made after beneficiaries' deaths. For periods prior to the implementation of the GAMMIS system modifications to address the defect identified, the DCH should perform procedures to compare the DMF to claims made after the date of death and analyze the results to identify improper payments. Additionally, the DCH should investigate and recover funds for all overpayments and if necessary, refer to the Georgia Medicaid Fraud Control Unit for further investigation into any potential provider fraud or abuse.

The DCH should also consult with the grantor to discuss whether questioned costs identified in the audit should be repaid.

Views of Responsible Officials:

FEDERAL AGENCY: U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES (continued)

STATE ENTITY: DEPARTMENT OF COMMUNITY HEALTH (continued)

2021-030 Improve Controls over Medicaid Capitation Payments for Medicare

Members

Compliance Requirement: Activities Allowed or Unallowed

Allowable Costs/Cost Principles

Internal Control Impact: Significant Deficiency

Compliance Impact: Nonmaterial Noncompliance

Federal Awarding Agency: U.S. Department of Health and Human Services

Pass-Through Entity: None

AL Numbers and Titles: 93.778 - Medical Assistance Program (Medicaid:

Title XIX)

93.778 - COVID -19 - Medical Assistance

Program (Medicaid: Title XIX)

Federal Award Number: 2005GA5MAP (Year 2020), 2105GA5MAP (Year

2021)

Questioned Costs: \$161,456.00

Repeat of Prior Year Finding: 2020-026, 2019-023

Description:

The Department of Community Health made improper capitation payments for Medicaid Managed Care members with Medicare insurance coverage.

Background Information:

The Department of Community Health (DCH) administers the State's Medicaid program that provides payments for medical assistance to low-income individuals. Medicaid is one of Georgia's largest public assistance programs with federal and state funds totaling \$12 billion for fiscal year 2021.

The DCH, the State's Medicaid agency, administers Georgia's managed-care program. The program is a partnership between the DCH and private managed care organizations (MCOs). The State pays a monthly fixed rate per person (capitation rate) without regard to the actual medical services utilized to cover the costs of Medicaid claims. Managed care is a prepaid, comprehensive system of medical and health care delivery, including preventive, primary, specialty and ancillary health care services. The program is designed to reduce the cost of providing health benefits, improve the quality of care and deliver health care to clients. Capitation payments for the year totaled \$5.2 billion (federal and state).

As part of our fiscal year 2021 audit, we followed up on the DCH's efforts to implement a corrective action plan in response to the prior year findings in which we reported that the DCH made improper capitation payments for Medicaid Managed Care members with Medicare

insurance coverage. However, the DCH was unable to fully implement their corrective action plan and apply modifications to the Georgia Medicaid Management Information System (GAMMIS) prior to fiscal year-end.

Criteria:

As a recipient of federal awards, the DCH is required to establish and maintain effective internal control over federal awards that provides reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal awards pursuant to Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance) Section 200.303 – Internal Controls.

Additionally, the Uniform Guidance, Section 200.53 - Improper payments states: *Improper payment* means any payment that should not have been made or that was made in an incorrect amount (including overpayments and underpayments) under statutory, contractual, administrative, or other legally applicable requirements; and *improper payments* includes any payment to an ineligible party, any payment for an ineligible good or service, any duplicate payment, any payment for a good or service not received (except for such payments where authorized by law), any payment that does not account for credit for applicable discounts, and any payment where insufficient or lack of documentation prevents a reviewer from discerning whether a payment was proper.

Title 42 CFR Chapter 7, Social Security, Subchapter XIX – Grants to States for Medical Assistance Program, 1396u-2 – Provisions relating to managed care, states in part: a state may not require under paragraph (1) the enrollment in a managed care entity of an individual who is a qualified Medicare beneficiary (as defined in section 1396d(p)(1) of this title) or an individual otherwise eligible for benefits under subchapter XVIII. Further, according to the DCH's State Plan, Medicare recipients should not be enrolled in managed care, and any monthly premium payments made for Medicare recipients are unallowable.

Condition:

Our audit of the Medicaid program revealed deficiencies in the capitation payments paid to MCOs for Managed Care members with Medicare insurance coverage. We obtained Medicare coverage information from the DCH for all Medicaid-eligible members.

Using data analytics, we identified a total of 3,120 potential capitation premium payments made on behalf of members who had Medicare coverage during the same month as their monthly managed care capitation payment. From this population, we tested a random sample of 60 members to determine if the DCH made monthly managed care premium payments for the members during the same time period the member's Medicare coverage was effective.

We found that the DCH made improper payments to MCOs for all 60 Managed Care members tested and these funds were not recouped. Additionally, we noted for 52 out of 60 members tested, a retroactive Medicare effective date was issued, which was during the time period that managed care payments were made to MCOs. The DCH did discontinue paying the MCO after it received notification from Medicare of the member's eligibility; however, they did not recoup the payments made to the MCOs for the retroactive period of Medicare coverage. Furthermore, we noted that for eight out of 60 members tested, improper payments continued to be made after Medicare notified the DCH of the member's Medicare eligibility.

Questioned Costs:

Known questioned costs of \$161,456 were identified for the capitation payments paid to MCOs for the 60 Managed Care members that were during the same time the Managed Care member was enrolled in Medicare. The Federal and State share of known questioned costs is approximately \$118,357 and \$43,099, respectively. Because all sample amounts tested were deemed to be known questioned costs, the total population amount of \$1,435,238 is projected to be likely questioned costs. The Federal and State share of likely questioned costs is approximately \$1,052,119 and \$383,119, respectively. The projected likely questioned costs are based on the testing of a sample of 60 Managed Care members that were selected using a nonstatistical sampling method.

Cause:

Technical guidance from the Centers for Medicare and Medicaid Services (CMS) has been requested and is needed before the DCH's third-party vendor can move forward with additional identified GAMMIS modifications needed to fully implement the process to recoup capitation payments for Medicare eligible recipients.

Effect:

Without effective controls in place, the DCH increases its risk of providing and not detecting improper payments to MCOs. The improper capitation payments resulted in noncompliance with federal regulations and questioned costs. Improper payments could occur for an ineligible recipient that are unallowable and cannot be claimed for federal reimbursement. In addition, grant provisions allow the grantor to penalize the DCH for noncompliance by suspending or terminating the award or withholding future awards.

Recommendation:

The DCH management should continue to dedicate the necessary resources and execute their plan to ensure that modifications to retroactively recoup capitation payments from its MCOs upon receipt of notice that a member is eligible for Medicare are implemented appropriately within GAMMIS. For periods prior to the implementation of the GAMMIS system modifications, the DCH should perform analytical procedures over Medicare effective dates for Managed Care members to determine whether capitation payments have been recouped. Additionally, the DCH should investigate and recover funds for all improper payments.

The DCH consult with the grantor to discuss whether the questioned costs identified in the audit should be repaid.

Views of Responsible Officials:

FEDERAL AGENCY: U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES (continued)

STATE ENTITY: DEPARTMENT OF COMMUNITY HEALTH (continued)

2021-031 Continue to Strengthen Application Risk Management Program

Compliance Requirement: Special Tests and Provisions

Internal Control Impact: Significant Deficiency

Compliance Impact: Nonmaterial Noncompliance

Federal Awarding Agency: U.S. Department of Health and Human Services

Pass-Through Entity: None

AL Numbers and Titles: 93.778 - Medical Assistance Program (Medicaid:

Title XIX)

93.778 - COVID -19 - Medical Assistance

Program (Medicaid: Title XIX)

Federal Award Number: 2105GA5MAP (Year: 2021), 2105GA5ADM (Year:

2021), 2005GA5MAP (Year: 2020), 2005GA5ADM

(Year: 2020), 1905GA5MAP (Year: 2019),

1905GA5ADM (Year: 2019)

Questioned Costs: None Identified

Repeat of Prior Year Findings: 2020-028, 2019-024, 2018-026, 2017-037,

2016-044

Description:

The Department of Community Health should continue to strengthen controls over its application risk management program.

Background Information:

See Financial Finding at 2021-003.

Criteria:

See Financial Finding at 2021-003.

Condition:

See Financial Finding at 2021-003.

Cause:

See Financial Finding at 2021-003.

Effect:

See Financial Finding at 2021-003.

Recommendation:

See Financial Finding at 2021-003.

Views of Responsible Officials:

We concur with the finding as it is only partially resolved.

FEDERAL AGENCY: U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES (continued)

STATE ENTITY: DEPARTMENT OF COMMUNITY HEALTH (continued)

2021-032 Improve Controls over Inpatient Medicaid Payments

Compliance Requirement: Special Tests and Provisions

Internal Control Impact: Significant Deficiency

Compliance Impact: Nonmaterial Noncompliance

Federal Awarding Agency: U.S. Department of Health and Human Services

Pass-Through Entity: None

AL Numbers and Titles: 93.778 - Medical Assistance Program (Medicaid:

Title XIX)

93.778 - COVID -19 - Medical Assistance

Program (Medicaid: Title XIX)

Federal Award Number: 2005GA5MAP (Year: 2020), 2105GA5MAP (Year:

2021)

Questioned Costs: None Identified

Repeat of Prior Year Findings: 2020-029, 2019-025

Description:

The Department of Community Health does not have adequate controls in place to ensure the required inpatient hospital field audits are performed in accordance with the State Plan.

Background Information:

The Department of Community Health (DCH) is responsible for administering the Medicaid program under the State Plan approved by the federal Centers for Medicare & Medicaid Services (CMS). The State Plan is a comprehensive written statement describing the nature, scope, and basic requirements for the Medicaid program. At any time, the DCH can propose changes to the State Plan by submitting a State Plan Amendment to the CMS.

As part of the State Plan, the DCH is responsible for establishing standards and methodologies for reimbursing inpatient hospital providers based on payment rates that represent the cost to efficiently and economically operate such facilities and provide services to Medicaid beneficiaries. The DCH requires all inpatient hospital providers to submit an annual cost report summarizing cost and patient day information for the reporting year. These cost reports may be used to establish payment rates. A total of 141 cost reports were submitted by the Medicaid inpatient hospital providers during the year.

For fiscal year 2021, inpatient Medicaid payments totaled approximately \$1.2 billion.

As part of our fiscal year 2021 audit, we followed up on the DCH's efforts to implement corrective action plans in response to the prior year findings in which we reported that DCH did not perform the required inpatient hospital field audits per the State Plan. Although DCH was

unable to fully implement their corrective action plan prior to fiscal year-end, we noted that ongoing efforts have been made and the State Plan has been revised with an effective date of July 1, 2021.

Criteria:

As a recipient of federal awards, the DCH is required to establish and maintain effective internal controls over federal awards that provides reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal awards pursuant to Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance) Section 200.303 – Internal Controls.

Pursuant to 42 CFR Section 447.253(g), the DCH is required to perform periodic audits of financial and statistical records of participating inpatient hospitals in accordance with the audit requirements specified in the State Plan. These audits are crucial to ensuring the established payment rates are proper.

The Georgia Medicaid State Plan, Section 1C, Attachment 4.19A-Methods and Standards for Establishing Payment Rates Inpatient Services requires DCH to contract annually for the performance of desk reviews and field audits.

Condition:

The DCH contracts with a third-party vendor to perform desk reviews on the inpatient hospital providers' cost reports submitted. In response to our recommendations regarding the establishment of procedures associated with the completion of desk reviews and field audits for inpatient Medicaid providers, the DCH ensured that all required desk reviews were completed appropriately and within the necessary timeframe during the fiscal year under review. However, field audits of participating inpatient hospital providers were not performed as required by the current State Plan.

Cause:

The DCH had turnover in management personnel and did not have procedures in place to ensure that field audits were performed in accordance with the State Plan. During the current fiscal year, the DCH was in the process of revising its State Plan and contract with its third-party vendor to remove language requiring field audits of inpatient hospital providers to be conducted and replacing it with language requiring desk or focus reviews. However, the revisions did not make it through the DCH review and approval process prior to the end of the fiscal year as the revisions to the State Plan were made in January 2021 and will not go into effect until July 1, 2021.

Effect:

Since cost reports may be used as the basis to establish reimbursement rates, the rates used may contain errors which could result in improper payments. In addition, grant provisions allow the grantor to penalize the DCH for noncompliance by suspending or terminating the award or withholding future awards. This may prevent inpatient hospital providers from receiving benefit payments in the future.

Recommendation:

Because the DCH management executed their plan to revise the State Plan and contract with its third-party vendor after year-end, the DCH should ensure that the required desk or focus reviews are performed in accordance with the revised State Plan going forward.

Views of Responsible Officials:

We concur with this finding.

FEDERAL AGENCY: U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES (continued)

STATE ENTITY: DEPARTMENT OF COMMUNITY HEALTH & STATE ENTITY: DEPARTMENT OF HUMAN SERVICES

2021-033 Improve Controls over Medicaid Eligibility Determinations for Ex Parte Members

Compliance Requirement: Eligibility

Internal Control Impact: Significant Deficiency

Compliance Impact: Nonmaterial Noncompliance

Federal Awarding Agency: U.S. Department of Health and Human Services

Pass-Through Entity: None

AL Numbers and Titles: 93.778 - Medical Assistance Program (Medicaid:

Title XIX)

93.778 - COVID -19 - Medical Assistance

Program (Medicaid: Title XIX)

Federal Award Number: 2005GA5MAP (Year 2020), 2105GA5MAP (Year

2021)

Questioned Costs: None Identified

Repeat of Prior Year Finding: 2020-033, 2019-027, 2018-029

Description:

The Department of Community Health and Department of Human Services did not have effective internal controls in place to ensure the required continuing Medicaid eligibility determinations are performed for Supplemental Security Income Ex Parte members.

Background Information:

The Department of Community Health (DCH) administers the State's Medicaid program that provides payments for medical assistance to low-income individuals. Medicaid is one of Georgia's largest public assistance programs with federal and state funds totaling approximately \$12 billion for fiscal year 2021.

Eligibility for the Medicaid program is determined by the Division of Family and Children Services (DFCS), a division within the Department of Human Services (DHS), which has offices in each of the 159 counties in the State of Georgia. Individuals who are eligible for Supplemental Security Income (SSI) are also eligible for the Medicaid benefits, and those whose SSI benefits are terminated or denied by the Social Security Administration are SSI Ex Parte members for the Medicaid program. For those members, the DCH makes temporary determinations of continued eligibility under a new Ex Parte Medicaid Class of Assistance in the Georgia Medicaid Management Information System (GAMMIS).

The DFCS is responsible for performing a Continuing Medicaid Determination (CMD) for each new SSI Ex Parte member. The DFCS uses the daily Ex Parte Determination Reports generated

by GAMMIS to identify the new SSI Ex Parte members that require a CMD. GAMMIS also generates monthly Ex Parte Non-Confirmation Reports, which identify all entries from the Ex Parte Determination Reports that are over 30-days old and have not yet been acted upon.

When a CMD is complete, the DFCS enters the individual in the Georgia Gateway eligibility system and an approval or denial notice is generated. GAMMIS is updated through the Georgia Gateway interface when eligibility for a member is approved. When eligibility is denied, DFCS sends the denial notice to the DCH which triggers the removal of the denied member from GAMMIS.

As part of our fiscal year 2021 audit, we followed up on the DCH's efforts to implement corrective action plans in response to the prior year finding in which we reported that the DCH did not perform the required continuing eligibility determination for SSI Ex Parte members. Although the DCH was unable to fully implement their corrective action plan prior to fiscal yearend, we noted that significant progress in training various levels of Medicaid workers on the correct procedures for handling Ex-Parte cases had occurred.

Criteria:

As recipients of federal awards, both the DCH and the DHS are required to establish and maintain effective internal controls over federal awards that provides reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal awards pursuant to Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance) Section 200.303 – Internal Controls.

The eligibility determination requirements for SSI Ex Parte members are addressed in Chapter 2700, Section 50 - DCH Reports - Ex Parte Lists of the DHS Medicaid Manual. In accordance with Section 50 of the Medicaid Manual, the DFCS is required to perform eligibility determinations of those members whose SSI benefits are terminated or denied.

Condition:

Our audit of the Medicaid program revealed deficiencies in the performance of eligibility determinations for SSI Ex Parte members. During fiscal year 2021, the DCH paid Medicaid benefits totaling \$10,083,737 for 46,174 claims transactions. We used a nonstatistical sampling method to select a random sample of 60 Ex Parte benefit payments from this population and tested the sample to determine if eligibility determinations were performed appropriately. For 11 out of 60 SSI Ex Parte payments tested, we found that the DFCS did not perform the required eligibility determinations prior to payments being made. However, as a result of the continued consequences of the COVID-19 pandemic, a public health state of emergency was in place during the fiscal year and did not allow Medical Assistance cases to be terminated. Therefore, no questioned costs were identified for benefit payments made to the 11 SSI Ex Parte members whose eligibility was not appropriately redetermined.

Cause:

The processes that DFCS ran in the Gateway system did not capture all the CMD members in the system who needed a determination. The query used to capture CMD members was not written in a way to identify all CMD members. Furthermore, the DFCS is in the process of modifying the query to identify all CMD members that were missed by the original query.

Effect:

The deficiencies in eligibility determinations resulted in noncompliance with federal regulations. Also, grant provisions allow the grantor to penalize the DCH for noncompliance by suspending or terminating the award or withholding future awards. In addition, the DCH may be providing Medicaid benefits to ineligible individuals and claiming federal reimbursement for unallowable expenditures.

Recommendation:

The DCH and DHS management should strengthen oversight of the eligibility determinations performed by the DFCS for SSI Ex Parte members to make certain they are being performed timely and as required. Specifically, management should oversee a reconciliation process between members with completed CMDs to members listed on the Ex Parte daily and monthly Determination Reports. In addition, the DHS management should continue to provide training associated with these compliance requirements to new hires.

Views of Responsible Officials:

We concur with this finding.

FEDERAL AGENCY: U.S. DEPARTMENT OF LABOR

STATE ENTITY: DEPARTMENT OF LABOR

2021-034 Strengthen Controls over Expenditures

Compliance Requirement: Activities Allowed or Unallowed

Allowable Costs/Cost Principles

Internal Control Impact: Material Weakness

Compliance Impact: Material Noncompliance
Federal Awarding Agency: U.S. Department of Labor

Pass-Through Entity: None

AL Numbers and Titles: 17.225 – Unemployment Insurance

17.225 - COVID-19 - Unemployment Insurance

Federal Award Number: UI312881855A13 (Year: 2018), UI325941955A13

(Year: 2019), UI328341960A13 (Year: 2019),

UI340532055A13 (Year: 2020), UI341592055A13 (Year: 2020), UI344912060A13 (Year: 2020), UI347102055A13 (Year: 2020), UI356432155A13

(Year: 2021), UI356992155A13 (Year: 2021),

UI359392160A13 (Year: 2021)

Questioned Costs: \$516,722.00

Description:

The Georgia Department of Labor used federal award funds to purchase unallowable employee meals during the COVID-19 pandemic.

Background Information:

On September 30, 2021, the Georgia Department of Administrative Services (DOAS) issued a report of the results of its limited scope audit of purchasing card (p-card) transactions of the Georgia Department of Labor (DOL) from March 1, 2020 through February 28, 2021. The audit was related to food purchases and was performed to determine compliance with section IX.B.6 ("Food or Meals") of the Statewide Purchasing Card Policy (P-card Policy) which, incorporates the State Accounting Office's Group Meal Policy (SAO Group Meal Policy) and Statewide Travel Policy.

On October 4, 2021, the Georgia Office of the State Inspector General (OIG) issued a letter addressed to Governor Brian Kemp detailing the results of its review of the expenditures. The letter details the OIG's findings of whether the DOL's meal purchases violate the Georgia Constitution and various state administrative rules, specifically the DOAS P-card Policy and the SAO Group Meal Policy, as well as the OIG's opinion of whether these expenditures constitute general acts of waste.

The DOL expended more than \$105.9 million in UC and UI COVID-related programs administrative costs during the fiscal year.

Criteria:

As a recipient of federal awards, the DOL is required to establish and maintain effective internal control over federal awards that provides reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal awards pursuant to Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance), Section 200.303 – Internal Controls.

The Uniform Guidance, Section 200.53 - Improper payments states: *Improper payment* means any payment that should not have been made or that was made in an incorrect amount (including overpayments and underpayments) under statutory, contractual, administrative, or other legally applicable requirements. An *improper payment* includes any payment to an ineligible party, any payment for an ineligible good or service, any duplicate payment, any payment for a good or service not received (except for such payments where authorized by law), any payment that does not account for credit for applicable discounts, and any payment where insufficient or lack of documentation prevents a reviewer from discerning whether a payment was proper.

Additionally, the Uniform Guidance, Section 200.404 – Reasonable costs states: A cost is reasonable if, in its nature and amount, it does not exceed that which would be incurred by a prudent person under the circumstances prevailing at the time the decision was made to incur the cost. The question of reasonableness is particularly important when the non-Federal entity is predominantly federally-funded. In determining reasonableness of a given cost, consideration must be given to: (a) Whether the cost is of a type generally recognized as ordinary and necessary for the operation of the non-Federal entity or the proper and efficient performance of the Federal award. (b) The restraints or requirements imposed by such factors as: sound business practices; arm's-length bargaining; Federal, state, local, tribal, and other laws and regulations; and terms and conditions of the Federal award... (d) Whether the individuals concerned acted with prudence in the circumstances considering their responsibilities to the non-Federal entity, its employees, where applicable its students or membership, the public at large, and the Federal Government. (e) Whether the non-Federal entity significantly deviates from its established practices and policies regarding the incurrence of costs, which may unjustifiably increase the Federal award's cost.

Furthermore, provisions included in Title 20 CFR Section 601.6 provide that administrative grant funds be used in "amounts necessary for the proper and efficient administration of the State unemployment compensation law and employment service program."

Condition:

During our engagement, we obtained copies of the reports issued by both the DOAS and the OIG. The DOAS audit determined that from March 1, 2020 to February 28, 2021, the DOL spent \$959,175 on p-card food purchases. The DOL spent an additional \$153,627 from March 1, 2021, until June 11, 2021, for a total of \$1.1 million dollars. This amount was spent on employees who were fed daily for approximately 285 days. The audit details noncompliance with the Statewide P-card Policy, SAO Group Meal Policy, and Statewide Travel Policy. In addition, the audit reports instances of insufficient documentation.

The OIG also examined over \$1.1 million spent to purchase meals for each of the DOL's reported 1,026 employees over a nearly 15-month period. The purchases continued without interruption until June 11, 2021, when the DOAS suspended the DOL's ability to buy meals using a p-card.

The OIG inquired into the origin of the funds utilized for the meal purchases. The Governor's Office of Planning and Budget (OPB) confirmed that approximately \$567,000 came from the DOL's annual state funds appropriation and most of the remaining funds, which totaled approximately \$519,000, originated from the federal UI grants provided to the DOL.

Our review of the DOL's accounting records revealed that \$516,722 in unallowable meal expenditures were paid with federal award funds during the fiscal year under review. Further, the DOL could not provide the grant award numbers to which the expenditures were charged or any documentation of correspondence with the U.S. Department of Labor to request authorization or make the grantor aware that the DOL planned to use and/or used federal funds for these types of expenditures.

Questioned Costs:

Questioned costs of \$516,722 were identified for unallowable expenditures. The following Assistance Listing Numbers were affected by these questioned costs: 17.225 and 17.225 – COVID-19.

Cause:

The DOL management determined the costs were reasonable in the interest of public safety for employees, as well as to meet the critical need to maintain a desirable level of productivity with an unprecedented demand for the DOL services, to use funds to provide lunches on the premises for employee health and welfare during both a pandemic and an unemployment crisis.

Effect:

The expenditure of federal funds for unallowable purposes resulted in noncompliance with federal regulations and questioned costs. In addition, grant provisions allow the grantor to penalize the DOL for noncompliance by suspending or terminating the award or withholding future awards. This may prevent the DOL from effectively administering the UI program in the future. The U.S. Department of Labor may require repayment of costs that are determined to be unallowable and the State of Georgia could be responsible for such repayment.

Recommendation:

The DOL should ensure that all current and future business practices follow the established policies and procedures of the Uniform Guidance, the U.S. Department of Labor, and the State of Georgia. We recommend that the DOL contact the U.S. Department of Labor for the guidance and authorization to use federal funds when the expenditure is deemed uncommon and/or extraordinary.

Views of Responsible Officials:

We do not concur with this finding. The State Auditor presents language from the Uniform Guidance, Section 200.404 regarding reasonable costs, stating specifically, A cost is reasonable if, in its nature and amount, it does not exceed that which would be incurred by a prudent person under circumstances prevailing at the time the decision was made to incur the cost. To that statement we offer the following information which must also be considered under these circumstances:

- EUISAA Emergency Grants (\$1,000,000,000 to the states) amended Social Security Act, adding subsection (h) to 42 USC Section 1103:
 - 42 USC 1103(h)(4)- "Any amount transferred to the account of a State under this subsection may be used by such State only for the administration of its unemployment compensation law, including by taking such steps as may be necessary to ensure adequate resources in periods of high demand."
- USDOL ETA Website COVID-19 FAQ's https://www.dol.gov/agencies/eta/coronavirus#adminflex – ALL Grants – Administrative Flexibilities Section:
 - Question: Can grantees repurpose grant funds to offset additional expenses related to COVID-19 such as increased paid time off or overtime for staff?
 - Answer: (last sentence) "Grant recipients should not place their staff in danger or a hazardous setting."

The condition statements reference a review of P-card purchases conducted by the state Department of Administrative Services reviewing food purchases made on behalf of GDOL staff during a declared international, national and state emergency.

The COVID-19 pandemic emergency created a perfect storm for GDOL and we continue to deal with residual effects of that perfect storm to this day. The event not only caused an epic increase in Unemployment Insurance (UI) claims for benefits due to the expansion of new federal programs but at the same time created a life altering impact to GDOL staff and their families. We must note for the record that our agency was grossly understaffed after years of reduced state and federal appropriations of administrative dollars and no assistance was offered through the legislative appropriation process nor did we receive distribution of adequate CARES act funding for critical staffing and operational needs from the State. While many employees were able to work from the safety of their homes, GDOL had to meet that challenge head on and provide critically needed financial assistance to eligible, suffering fellow Georgians. GDOL had the critical responsibility to serve customers filing claims at a rate and volume never seen in history. GDOL processed about 6 million UI benefit claims, an amount exceeding the sum total of all claims processed in the past ten years combined. More than 23 billion dollars in UI benefits have been paid. This amount exceeds the total amount of benefits paid in the previous 82 years combined.

To accomplish this potentially crippling feat, GDOL rehired experienced retirees, reassigned staff from other duties, and used contractors where appropriate. Consistent with the practice of other state labor departments, our employees were considered essential employees and continued to report to the office even as other state agencies and their employees (such as OIG, DOAS and DOAA) allowed their employees to work from the safety of their homes. GDOL initiated efforts to keep our essential office employees safe during this time. For example, after securing approval from the Department of Administrative Services (DOAS) to provide lunches for our employees, GDOL began providing lunch to its workers in order for employees to remain in their offices and continue to sustain the critically required claims process. Providing lunch and asking staff to remain at their desks allowed us to realize more than 230,000 additional work hours to process UI claims and interact with Georgians in desperate need of our services. The increase in labor hours is equivalent to approximately 90 additional

full-time, experienced staff with an estimated savings of eight (8) million dollars in administrative costs. GDOL staffing during the period consisted of 1,100 employees, over 60 security guards and more than 400 contractors. We invested an average of one thousand dollars per employee over a 15-month period and were able to achieve and sustain an exceptionally high operational capacity. This translates to \$67 per month per employee invested to process six (6) million UI claims and deliver twenty-three (23) billion dollars in UI benefits faster than most states of comparable size in the midst of persistent threats to personal safety, exposure of employee home addresses on social media, property vandalism, and protests.

As offered in GDOL's response to the DOAS report, GDOL did not begin this process before seeking and securing authorization from DOAS to make the purchases using the P-card. GDOL followed DOAS' guidelines entering invoices each business day in the DOAS proprietary TGM statewide system. GDOL complied with SAO per diem guidelines of \$7 or \$9 for lunches (depending on office location) with limited exceptions that occurred in the initial deployment of the process. Any queries for clarification received from DOAS over the 15 months this occurred were quickly and fully addressed. Wherever possible, GDOL utilized small businesses struggling during the pandemic and the Georgia State University cafeteria. We also note here that the State Accounting Office finally modified its per diem guidelines effective February 1, 2022 to change the lunch per diem to \$14 after decades at the abysmally lower rate. We continued to follow emergency Coronavirus mandates and Executive Orders issued by the Governor's Office which remained in effect in June 2021. We also wanted to reduce the need to make stops on the commute to and from work. Any employee illness could negatively impact the operation. We took the responsibility to actively maintain a safe workplace.

Even OIG admits GDOL's reasons for providing lunches were justifiable before asserting that the justification somehow morphed into 'waste' in violation of the "gratuities" clause upon the approval of the COVID vaccines in March/April 2021. OIG also admitted that agencies have discretion with regards to how administrative assessment monies are spent. The federal dollars came from emergency administrative funds provided to the states by USDOL with broad discretion to states regarding the use of such funds to ensure adequate resources were available during this national historic emergency.

This process was thoughtfully considered and undertaken in a genuine effort to reduce unnecessary workplace exposure to COVID and markedly enhanced claim processing productivity. There was no vaccine available during the first 12 months of this activity. When vaccines were introduced, they were limited to certain populations who, for the most part, were not in the workplace processing UI claims.

The decision was made to deliver lunches to all of our locations as grocery stores experienced greatly diminished product availability, restaurants closed due to the shrinking workforce, no relief was in sight and no one had any reasonable prediction on how long this international crisis would last. GDOL could not and did not close down its processes and wait for the crisis to pass. That option was never a consideration. We have a responsibility to our fellow Georgians and to our employees. As an agency, we have experienced 382 cases of COVID, twenty-six (26) of those cases resulted in hospitalizations and unfortunately TEN (10) members of our staff paid the ultimate price and lost their lives to the Coronavirus. These ten staff members were parents, grandparents, siblings, friends, neighbors, and community partners. Four of these deaths occurred after the provision of lunches ended on June 10, 2021. These ten staffers were people engaged in the everyday life. We are certain that their surviving loved ones would find the categorization of providing them a delivered meal while they were at their desk working in a

pandemic as a waste or abuse to be absolutely abhorrent. In the opinion of these external reviewers, staff at GDOL are undoubtedly dispensable.

We strongly disagree that investing in the health and safety of our employees was reckless, grossly negligent, needless, imprudent, wasteful and certainly not unreasonable. The loss of life and staff infections we suffered would likely have been far greater had we not taken the strategic approach to limit employee ingress and egress, provide meals and encourage social distancing in the workplace. Our attempt to protect our invaluable human resources by making the decision to reduce a known risk was neither abusive or unreasonable but an act of genuine compassion, a substantial benefit to the state, and actually more than reasonable given the limited alternatives.

Again, this investment was most beneficial as the return yielded hundreds of thousands of additional hours in critically needed, cost-efficient productivity. Such disregard for humankind does little more than contribute to the reasons that so many are leaving the workplace and causes employers in every sector to suffer as a result. GDOL employees were positioned as first responders as they continued to report to duty on the front lines in these historic, unprecedented circumstances. It is regrettable that the State OIG completed an 'investigation' and issued a report without ever giving GDOL an opportunity to respond to any perceived issue. GDOL made a judgment call to protect our staff from hazardous circumstances as best as we could while continuing to deliver critical services. We continue to believe our actions were necessary, appropriate and reasonable to continue to stand up the UI claims process. We stand by that decision.

Auditor's Concluding Remarks:

The Georgia Department of Audits and Accounts (DOAA) acknowledges the overwhelming burden placed on the DOL due to the effects of the COVID-19 pandemic and the urgency with which payments were made to the unemployed citizens of Georgia. However, given the information reflected above, we reaffirm our finding and will review the status of the finding during our next audit.

FEDERAL AGENCY: U.S. DEPARTMENT OF LABOR (continued)

STATE ENTITY: DEPARTMENT OF LABOR (continued)

2021-035 Improve Controls over Eligibility Determinations

Compliance Requirement: Eligibility

Internal Control Impact: Material Weakness

Compliance Impact: Material Noncompliance
Federal Awarding Agency: U.S. Department of Labor

Pass-Through Entity: None

AL Numbers and Titles: 17.225 – Unemployment Insurance

17.225 - COVID-19 - Unemployment Insurance

Federal Award Number: UI312881855A13 (Year: 2018), UI325941955A13

(Year: 2019), UI328341960A13 (Year: 2019), UI340532055A13 (Year: 2020), UI341592055A13 (Year: 2020), UI344912060A13 (Year: 2020), UI347102055A13 (Year: 2020), UI356432155A13

(Year: 2021), UI356992155A13 (Year: 2021),

UI359392160A13 (Year: 2021)

Questioned Costs: \$1,075,829.00 Repeat of Prior Year Finding: 2020-036

Description:

The Georgia Department of Labor did not have effective internal controls in place to ensure unemployment benefit payments were made correctly and only to eligible claimants.

Background Information:

The Unemployment Insurance (UI) program, created by the Social Security Act (Pub. L. No. 74-271), provides Unemployment Compensation (UC) benefits to workers who are unemployed through no fault of their own and are seeking reemployment. To receive benefits, claimants must be able to work, available for work, and actively seeking work.

On March 27, 2020, the Coronavirus Aid, Relief, and Economic Security (CARES) Act was signed into law. The CARES Act was designed to mitigate the economic effects of the COVID-19 pandemic in a variety of ways, including providing additional UI provisions.

Title II, Subtitle A of the CARES Act, authorizes the following temporary UI programs:

• Federal Pandemic Unemployment Compensation (FPUC) – The FPUC program provides eligible individuals with \$600 per week in addition to the weekly benefit amount they receive from certain other UC programs.

- Pandemic Emergency Unemployment Compensation (PEUC) The PEUC program
 provides up to 13 weeks of benefits to individuals who have exhausted all rights to
 regular compensation under State law or Federal law with respect to a benefit year that
 ended on or after July 1, 2019, have no rights to regular compensation with respect to a
 week under any other State or Federal UC law, are not receiving compensation with
 respect to such week under the UC law of Canada, and are able to work, available to
 work, and actively seeking work.
- Pandemic Unemployment Assistance (PUA) The PUA program provides up to 39
 weeks of benefits to those individuals who are not eligible for regular UC or extended
 benefits under State or Federal law or PEUC, including those who have exhausted all
 rights to such benefits.

In addition, the State Extended Benefits (SEB) program, which is an extension of UC benefits, becomes available for payment when the State's 13-week insured unemployment rate (IUR) exceeds 5% and pays claimants up to an additional 13 weeks of compensation. Under the SEB program, the State is required to provide 50% of the amounts paid to the majority of eligible SEB claimants, which are those not covered by Federal law or special provisions of State law. However, under the CARES Act, the U.S. Department of Labor will reimburse the State at 100% of eligible costs for the SEB program.

The State of Georgia became eligible to pay SEB May 10, 2020. However, the first payable weekending date (WED) was on July 4, 2020, as the first payable WED of PEUC was April 4, 2020. Further, the last payable WED for SEB was February 6, 2021.

The Georgia Department of Labor (DOL) paid out more than \$2.5 billion and \$9.2 billion in UC and CARES Act benefits, respectively, to over 1.1 million individuals for the fiscal year under review.

Criteria:

As a recipient of federal awards, the DOL is required to establish and maintain effective internal control over federal awards that provides reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal awards pursuant to Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance), Section 200.303 – Internal Controls.

The Uniform Guidance, Section 200.53 - Improper payments states: *Improper payment* means any payment that should not have been made or that was made in an incorrect amount (including overpayments and underpayments) under statutory, contractual, administrative, or other legally applicable requirements. An *improper payment* includes any payment to an ineligible party, any payment for an ineligible good or service, any duplicate payment, any payment for a good or service not received (except for such payments where authorized by law), any payment that does not account for credit for applicable discounts, and any payment where insufficient or lack of documentation prevents a reviewer from discerning whether a payment was proper.

Additionally, provisions included in Title 20 CFR Section 604.3(a) state: A State may pay UC only to an individual who is able to work and available for work for the week for which UC is claimed.

Furthermore, Title II, Subtitle A of the CARES Act provides specific eligibility guidance for the FPUC, PEUC, and PUA programs.

Condition:

Our audit of the Unemployment Compensation Fund (UCF) included a review of benefit payments related to regular UC, SEB, and CARES Act UI programs. A sample of 85 UI benefit payment transactions processed by the DOL was randomly selected for testing using a non-statistical sampling method. In addition, 159 individually significant UI benefit payment transactions were selected for testing. The following deficiencies were identified for improper payments totaling \$69,479:

- Identity verification was not performed appropriately in 29 instances.
- Non-monetary determination was not performed in two instances.
- Documentation of wages was not maintained for 13 PUA claimants.
- Proof of employment or self-employment or a valid offer to begin employment and proof of wages was not submitted by four PUA claimants.
- One PUA claimant's last day worked was prior to the pandemic; therefore, they were not eligible for PUA.
- One PUA claimant was not unemployed due to COVID; therefore, they were not eligible for PUA but were eligible for the PEUC program.
- One Regular UI claimant was paid the incorrect amount.
- One PUA claimant was paid for a WED prior to the WED the individual stated their employment was affected by COVID.
- Duplicate payments were noted in 13 regular UC transactions.
- Duplicate payments were noted in 12 PUA transactions.
- Payments exceeding the claimant's weekly benefit amount (WBA) were noted for 133 SEB transactions.
- SEB and PEUC payments were received by 65 claimants for the same WED.
- FPUC payments were paid during a week in which the claimant was ineligible in 24 instances.
- Lost wages assistance (LWA) payments were paid during a week in which the claimant was ineligible in two instances.

Additionally, after identifying that 65 claimants received a SEB and PEUC payment for the same WED, auditors reviewed the benefit payment data file for additional exceptions and noted that the DOL made 3,575 PEUC payments totaling \$1,024,974 during the same week they also paid a claimant an SEB payment.

Furthermore, while auditors requested that the DOL provide documentation and/or explanations to remediate these potential errors, no such information was provided.

Questioned Costs:

Upon testing a sample of \$20,839 in UC program payments, known questioned costs of \$4,686 were identified. Using the population of UC payments sampled, which totaled \$7,160,122,119, we project likely questioned costs to be approximately \$1,604,545,100.

In addition, known questioned costs were also identified as noted below:

- \$57,593 for improper payments associated with individually significant benefit payments tested:
- \$7,200 for improper FPUC, LWA, and Extra Payment PEUC payment amounts associated with the sample of benefit payments selected for testing; and
- \$1,006,350 were identified for additional improper PEUC payments made during weeks in which a claimant was also paid SEB, beyond the \$18,624 amount identified in other testing above.

The known questioned costs identified for improper payments totaled \$1,075,829.

Cause:

Due to the unprecedented volume of UC claims related to the COVID-19 pandemic and the short time in which to implement the CARES Act programs with limited guidance, existing controls over claims processing were modified and/or eliminated. In addition, the DOL's processes for lowering an individual's WBA to the minimum amount and/or stopping payments for individuals who did not submit the required documentation by the deadline is completely manual and time consuming. Therefore, the DOL dedicated its resources to higher priorities to support its mission-essential functions due to the COVID-19 pandemic. Furthermore, various benefit payment system errors caused the duplication of payments and the payment of benefits from the incorrect program during the period under review.

Effect:

Without effective controls, the DOL increases its risk of providing benefits to ineligible claimants and not detecting improper payments. The deficiencies in eligibility determinations also resulted in noncompliance with federal regulations and questioned costs. While funds for benefit payments are not provided to states through grant awards, states are awarded funds to administer these programs. Grant provisions allow the grantor to penalize the DOL for noncompliance by suspending or terminating the award or withholding future awards. This may prevent eligible individuals from receiving benefits in the future.

Recommendation:

The DOL management should develop and implement internal controls over eligibility and claims processing to ensure procedures are consistently enforced and operating effectively. Management should also provide training on procedures for processing unemployment claims for new programs created by the CARES Act. Strong monitoring controls should be implemented, as well, to ensure that the DOL achieves its objectives in complying with the eligibility requirements for the various UC programs.

Additionally, the DOL management should develop analytical procedures and queries to identify duplicate payments and payments that are more than the claimant's WBA. Additionally, analytical procedures and queries to identify payments that have been made to claimants without identify verification and non-monetary and monetary determinations should be developed.

Furthermore, the DOL management should develop IT controls to stop the release of payment until identity and eligibility requirements are substantiated and verified. The DOL management should also develop and implement procedures to stop or reduce payments when individuals do not provide required documentation.

Views of Responsible Officials:

We do not concur with this finding. The Georgia Department of Labor (GDOL) appreciates the opportunity to respond to the Georgia State FY 2021 Audit report. The pandemic resulted in an unprecedented volume of unemployment insurance (UI) claims related to the CARES Act. This warranted immediate adjustment to system and business processes with limited technical and business resources. Programming demands to implement federal pandemic UI programs on an already stressed benefits system caused an overwhelming burden to make payments quickly.

The following information addresses the areas in which GDOL disagrees with some findings and areas of concern by first providing the auditor's findings followed by Georgia's response.

FA-440-21-01 - The Georgia Department of Labor did not have effective internal controls in place to ensure unemployment benefit payments were made correctly and only to eligible claimants.

Auditors findings:

(1) Identity verification was not performed appropriately in 29 instances. GDOL Response:

The Georgia Department of Labor disagrees with these findings as it relates to identity verification. The auditors did not identify the type of identity verification procedures not performed or any identity verification procedures that GDOL was required to perform. There was not a mandatory requirement to complete identity verification at the time most of these applications were submitted, which is outside the scope of the audit. At the start of the pandemic, the identity proofing processes available were Social Security Administration (SSA) verification, Department of Driver Services (DDS) crossmatch and for non-citizens, Systematic Alien Verification for Entitlement (SAVE). As applicable, these processes were performed on all initial regular and employer-filed claims (EFC), which includes the 29 instances.

(2) Non-monetary determination was not performed in two instances. GDOL Response:

Instance 1: The indicator used to hold payments while a lack of work separation is pending eligibility was resolved on 3/27/20. An allowable determination was released 4/29/22, and all payable weeks have been processed. There was no detriment to the claimant as they were determined eligible, nor was there any monetary loss to the State.

Instance 2: Employer-filed claim converted to total claim by employer on 5/19/20. An allowable determination was released 1/12/22, and all payable weeks have been processed. There was no detriment to the claimant as they were determined eligible, nor was there any monetary loss to the State.

(3) Documentation of wages was not maintained for 13 PUA claimants. GDOL Response:

The GDOL disagrees with the findings related to documentation of wages was not maintained for 13 PUA claimants.

For individuals who established Pandemic Unemployment Assistance (PUA) entitlement at a minimum weekly benefit amount, these claimants were instructed to submit their proof of wages by email. Under the CARES Act, if claimants did not submit proof, federal requirements only allowed for payment of the minimum weekly benefit amount and no disqualification of benefits. To date, no proof has been provided by the claimants cited. Claims were originally established and remain established for the minimum weekly benefit amount. In accordance with CAA rules, the claimants were notified to provide proof of employment and wages for

weeks paid on or after 12/27/20 and no such proof has been provided. Claimants have been disqualified effective 12/27/20 and overpayments established. The disqualification could not be applied retroactively to any benefit weeks paid under CARES.

For individuals who established PUA entitlement with a weekly benefit amount greater than the minimum, PUA claims were initially established based on wages entered by the claimant and/or wages reported by the employer. CARES Act only required proof of wages to be submitted. To date, no proof has been provided by the claimants. Claims have been reduced to the minimum weekly benefit amount and overpayments established. In accordance with CAA rules, the claimants were notified to provide proof of employment and wages for weeks paid on or after 12/27/20 and no such proof has been provided. Claimants have been disqualified effective 12/27/20 and overpayments established. The disqualification could not be applied retroactively to any benefit weeks paid under CARES.

(4) Proof of employment or self-employment or a valid offer to begin employment and proof of wages was not submitted by four PUA claimants.

GDOL Response:

The GDOL disagrees with the findings related to proof of employment or self-employment or a valid offer to begin employment and proof of wages was not submitted by four PUA claimants. Under the CARES Act, claimants did not have to provide proof of employment or self-employment. It was not until CAA was enacted in December 27, 2020 that such proof was required. The disqualification could not be applied retroactively.

For individuals who established Pandemic Unemployment Assistance (PUA) entitlement at a minimum weekly benefit amount, these claimants were instructed to submit their proof of wages by email. Under the CARES Act, if claimants did not submit proof, federal requirements only allowed for payment of the minimum weekly benefit amount and no disqualification of benefits. To date, no proof has been provided by the claimants cited. Claims were originally established and remain established for the minimum weekly benefit amount. In accordance with CAA rules, the claimants were notified to provide proof of employment and wages for weeks paid on or after 12/27/20 and no such proof has been provided. Claimants have been disqualified effective 12/27/20 and overpayments established.

For individuals who established PUA entitlement with a weekly benefit amount greater than the minimum, PUA claims were initially established based on wages entered by the claimant and/or wages reported by the employer. CARES Act only required proof of wages to be submitted. To date, no proof has been provided by the claimants. Claims have been reduced to the minimum weekly benefit amount and overpayments established. In accordance with CAA rules, the claimants were notified to provide proof of employment and wages for weeks paid on or after 12/27/20 and no such proof has been provided. Claimants have been disqualified effective 12/27/20 and overpayments established.

(5) One PUA claimant's last day worked was prior to the pandemic; therefore, they were not eligible for PUA.

GDOL Response:

Proof of self-employment submitted but unclear whether claimant was attached to employment when COVID started. The claim is being assigned to an examiner for further review. If it is determined the individual's last date worked was prior to the pandemic, an overpayment will be established.

(6) One PUA claimant was not unemployed due to COVID; therefore, they were not eligible for PUA but were eligible for the PEUC program. GDOL Response:

This same claim was a finding last year and addressed during last year's audit. At that time, claim was redetermined to not be eligible and overpayment was established.

(7) One Regular UI claimant was paid the incorrect amount. GDOL Response:

The issue was caused by system error. A unique confluence of circumstances (i.e., an avalanche of unemployment claims precipitated by a pandemic, implementation of multiple new programs, and public and political pressure to implement new programs rapidly) hindered GDOL's ability to test and implement system changes to the extent desired or possible under normal circumstances. An overpayment has since been established.

(8) One PUA claimant was paid for a WED prior to the WED the individual stated their employment was affected by COVID.

GDOL Response:

UI benefit year beginning date is 3/15/20. Claimant listed affected by COVID beginning 3/19/20. Claimant was paid for week ending 3/14/20. Overpayment has been established.

(9) Duplicate payments were noted in 13 regular UC transactions. GDOL Response:

The issue was caused by system error. A unique confluence of circumstances (i.e., an avalanche of unemployment claims precipitated by a pandemic, implementation of multiple new programs, and public and political pressure to implement new programs rapidly) hindered GDOL's ability to test and implement system changes to the extent desired or possible under normal circumstances. An overpayment has since been established.

(10) Duplicate payments were noted in 12 PUA transactions. GDOL Response:

The issue was caused by system error. A unique confluence of circumstances (i.e., an avalanche of unemployment claims precipitated by a pandemic, implementation of multiple new programs, and public and political pressure to implement new programs rapidly) hindered GDOL's ability to test and implement system changes to the extent desired or possible under normal circumstances. An overpayment has since been established.

(11) Payments exceeding the claimant's weekly benefit amount (WBA) were noted for 133 SEB transactions.

GDOL Response:

The issue was caused by system error. A unique confluence of circumstances (i.e., an avalanche of unemployment claims precipitated by a pandemic, implementation of multiple new programs, and public and political pressure to implement new programs rapidly) hindered GDOL's ability to test and implement system changes to the extent desired or possible under normal circumstances. Overpayments have since been established for the excessive amount paid for all claimants. The system was corrected on April 22, 2021.

(12) SEB and PEUC payments were received by 65 claimants for the same WED. GDOL Response:

The issue was caused by system error. A unique confluence of circumstances (i.e., an avalanche of unemployment claims precipitated by a pandemic, implementation of multiple new programs, and public and political pressure to implement new programs rapidly) hindered GDOL's ability to test and implement system changes to the extent desired or possible under normal circumstances. The system was corrected on February 18, 2021. Establishment of overpayments is in progress.

(13) FPUC payments were paid during a week in which the claimant was ineligible in 24 instances.

GDOL Response:

GDOL disagrees with the findings related to FPUC payments were paid during a week in which the claimant was ineligible in 24 instances.

Upon reviewing a sample of the cases submitted by the auditors, the audit report is unfounded. Many of the claimants provided were paid as result of employer-filed claims and/or there is no evidence of disqualifications precluding the eligibility to receive FPUC payments.

(14) Lost wages assistance (LWA) payments were paid during a week in which the claimant was ineligible in two instances.

GDOL Response:

GDOL disagrees with the findings related to Lost wages assistance (LWA) payments were paid during a week in which the claimant was ineligible in two instances.

Upon reviewing the cases submitted by the auditors, the audit report is unfounded. One claimant was paid as result of employer-filed claims and the other showed no evidence of disqualification precluding the eligibility to receive LWA payments.

Summary

The information above is provided for your consideration in dispelling some of the audit findings. GDOL took immediate action to establish the federal UI programs and comply with federal guidance and regulations.

As system deficiencies were identified, changes were made as quickly as possible to mitigate risks of improper payments. Beginning July 2020, all automation of PUA claim review was suspended and each claim was manually reviewed by staff before a determination was released. GDOL established task forces to develop and implement strategies to address the ramped fraud attempts to bypass system and procedural safeguards.

Training on the CARES Act has been provided since implementation of the programs. Resource materials, memorandums and desk-aids are released, as appropriate with program changes and process enhancements. Additionally, when new applications are developed, processing changes made, and/or new staff are hired or moved into new roles, training is provided on the subject matter, as appropriate.

Prioritizing system changes was challenging with the time constraints, necessity to build a program based on an establish program that operated manually in our state and the demands of all other federal UI programs but GDOL made every attempt to maximize our system capacity to accommodate the guidelines of each program requirements.

Georgia greatly appreciates your time and consideration of our response to the findings and welcome you to contact us if you have any questions.

Auditor's Concluding Remarks:

The Georgia Department of Audits and Accounts (DOAA) acknowledges the overwhelming burden placed on the DOL due to the effects of the COVID-19 pandemic and the urgency with which payments were made to the unemployed citizens of Georgia. However, as noted in the finding details above, auditors requested on multiple occasions that the DOL provide documentation and/or explanations for each claimant associated with the potential errors reflected in the "Condition," and this information was not provided and has not yet been provided to auditors.

We reaffirm our finding and will review the status of the finding during our next audit.

FEDERAL AGENCY: U.S. DEPARTMENT OF LABOR (continued)

STATE ENTITY: DEPARTMENT OF LABOR (continued)

2021-036 Improve Controls over Employer Filed Claims

Compliance Requirement: Eligibility

Internal Control Impact: Material Weakness

Compliance Impact: Material Noncompliance
Federal Awarding Agency: U.S. Department of Labor

Pass-Through Entity: None

AL Numbers and Titles: 17.225 – Unemployment Insurance

17.225 - COVID-19 - Unemployment Insurance

Federal Award Number: UI312881855A13 (Year: 2018), UI325941955A13

(Year: 2019), Ul328341960A13 (Year: 2019), Ul340532055A13 (Year: 2020), Ul341592055A13 (Year: 2020), Ul344912060A13 (Year: 2020), Ul347102055A13 (Year: 2020), Ul356432155A13

(Year: 2021), UI356992155A13 (Year: 2021),

UI359392160A13 (Year: 2021)

Questioned Costs: Unknown

Description:

The Department of Labor (DOL) should improve internal controls over employer-filed Unemployment Compensation claims.

Background Information:

The Unemployment Insurance (UI) program, created by the Social Security Act (Pub. L. No. 74-271), provides Unemployment Compensation (UC) benefits to workers who are unemployed through no fault of their own and are seeking reemployment. To receive benefits, claimants must be able to work, available for work, and actively seeking work.

On March 27, 2020, the Coronavirus Aid, Relief, and Economic Security (CARES) Act was signed into law. The CARES Act was designed to mitigate the economic effects of the COVID-19 pandemic in a variety of ways, including providing additional UI provisions.

Additionally, in response to the COVID-19 public health emergency, the National Emergency declaration by the President on March 13, 2020, and the Public Health State of Emergency declared by Governor Brian Kemp on March 14, 2020, the Georgia Department of Labor (DOL) Commissioner Mark Butler enacted Emergency Rule 300-2-4-0.5, containing Rule 300-2-4-0.9(l) Partial Unemployment on March 16, 2020. The emergency rule allowed employers to file claims online on-behalf of their full-time and part-time employees with respect to any week during which an employee worked less than full-time due to a partial or total company shutdown caused by the COVID-19 public health emergency.

To file on-behalf of the employee, the employer must download and submit the DOL template, which requires the employer to input all the necessary identity, demographic, work, and wage information to establish a claim. After the employer has submitted the file, the DOL benefit payment system will automatically process the claim. A monetary determination will be made based on the wages the DOL has on-file. The DOL, then, sends the employee a Benefit Determination (Form DOL-411G), which reflects whether they met the wage requirements to establish a benefit year and a valid claim. If a valid claim is established, the determination lists the weekly benefit amount, maximum benefit amount, and maximum number of weeks.

The DOL paid out more than \$2.5 billion and \$9.2 billion in UC and CARES Act benefits, respectively, to over 1.1 million individuals for the fiscal year under review.

Criteria:

As a recipient of federal awards, the DOL is required to establish and maintain effective internal control over federal awards that provides reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal awards pursuant to Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance), Section 200.303 – Internal Controls.

Additionally, the Uniform Guidance, Section 200.53 - Improper payments states: *Improper payment* means any payment that should not have been made or that was made in an incorrect amount (including overpayments and underpayments) under statutory, contractual, administrative, or other legally applicable requirements. An *improper payment* includes any payment to an ineligible party, any payment for an ineligible good or service, any duplicate payment, any payment for a good or service not received (except for such payments where authorized by law), any payment that does not account for credit for applicable discounts, and any payment where insufficient or lack of documentation prevents a reviewer from discerning whether a payment was proper.

Furthermore, provisions included in Title 20 CFR Section 604.3(a) state: A State may pay UC only to an individual who is able to work and available for work for the week for which UC is claimed.

Condition:

Upon review of the procedures that the DOL established to process partial claims submitted by employers, deficiencies were noted. The DOL did not require employees to self-certify that they were able to work, available for work, and actively seeking work each week they received benefits. Furthermore, the claimant was unable to self-report additional wages and income the employee may have received from sources other than the employer that initially filed the claim.

While auditors were unable to determine the total dollar amount of improper payments, the following dollar amounts of benefit payments were submitted and certified by the employer for 459,731 claimants and were affected by these deficiencies:

- UC \$894,456,342
- SEB \$26,892,169
- FPUC \$1,141,827,795
- PEUC \$353,342,053

• LWA \$223,605,300

Moreover, the Georgia Department of Audits and Accounts (DOAA) is aware of an instance in which a part-time employer submitted a claim on-behalf of one of the DOAA's own employees. This part-time employer did not notify the employee that they were submitting a claim on their behalf and did not obtain the employee's additional wages and income. The DOL processed the employer-submitted claim and began paying the employee benefits though the employee was ineligible for such payments.

In addition, our audit of the Unemployment Compensation Fund (UCF) included a review of benefit payments related to regular UC, State Extended Benefits (SEB), and CARES Act UI programs. Upon testing 244 benefit payment transactions processed by the DOL, it was noted that identity verification documentation was not maintained on-file for 23 employer-filed claims.

Questioned Costs:

Though likely questioned costs may exist, these amounts are unknown as sufficient data to analyze benefit payment transactions associated with these employer-filed claims was not available. The following Assistance Listing Numbers would be affected if questioned costs did exist: 17.225 and 17.225 – COVID-19.

Cause:

The DOL management implemented a flawed employer-filed claim process that did not allow for the monitoring of the employees' ability to work and wage verification requirements.

Effect:

These deficiencies resulted in noncompliance with federal regulations and the Uniform Guidance. Due to lack of controls over employer-filed claims, specifically the inability for claimants to self-certify, it is likely that claimants were paid benefits that they were not eligible to receive. Because eligibility for UC benefits is based on claimants demonstrating that they meet certain eligibility requirements on a weekly basis, the suspension of the requirement for claimants to certify eligibility on a weekly basis did not allow the DOL to determine whether continuing claimants remained eligible for benefits. The State's failure to administer its UI program in conformity and substantial compliance with federal law can result in loss of the State's certification and loss of its administrative grant to operate the UC program and/or its employers' tax credits under Federal Unemployment Tax Act (FUTA).

Recommendation:

We recommend that the DOL develop a process to notify an employee when an employer-filed claim is submitted and to require the employee to create an account with the DOL, verify information, and self-certify employment status for the week being claimed. We also recommend that the DOL develop controls to prevent the release of payment when identity and eligibility requirements have not been substantiated and verified. In addition, we recommend that the DOL develop analytical procedures and queries to identify payments that have been made to claimants without identity verification and/or were otherwise ineligible to receive such payments.

Views of Responsible Officials:

The Georgia Department of Labor concurs in part and submits the following:

The Employer Filed (Partial) Claims (EFC) program originated in the late 1960's and was designed to allow employers with short term, temporary periods of lack of work for their employees to retain their workforce when work resumes. This is a program that many large manufacturers in Georgia rely on when they have temporary plant shutdowns and have for decades. When GDOL has attempted in the past to limit this program, we have met strong resistance from Georgia's manufacturers. This program optimizes our ability to process and pay mass numbers of claims more quickly, such as what occurred at the beginning of the pandemic. EFCs may be filed by an employer with respect to any complete pay-period week during which an otherwise full-time employee works less than full-time, due to lack of work only, and earns an amount not exceeding his/her unemployment insurance weekly benefit amount. Such claims shall not be submitted or allowed for vacation days regardless of whether such vacation days were requested by the employee or established by the employer.

Effective March 19, 2020, a temporary, Emergency Rule 300-2-4-05(1), containing Rule 300-2-4-09(1) was signed which required employers to electronically submit EFCs on behalf of their employees whenever it is necessary to temporarily reduce work hours or there was no work available for a short period of time. Employers were allowed to file such claims for full and part time employees whose earnings had been reduced. In July 2020, the Rule was sunset and employers were no longer required to file EFCs.

EFCs may be filed online by single entry or upload or paper. An employer may submit EFCs for regular state unemployment insurance programs including available extended benefits programs with the same eligibility requirements as regular UI, such as Pandemic Emergency Unemployment Compensation (PEUC) and State Extended Benefits (SEB), given all regular UI entitlement is exhausted.

By electing to submit EFCs on behalf of the individuals, the employer is responsible for attesting to the employment status and weekly earnings of the individual for the EFC submitted. An affidavit certifying that the employer has obtained earnings from other employment as well as other requirements must be completed before EFCs can be entered or uploaded. Individuals for which EFCs are submitted are considered to be still attached to the employer and are exempt from the requirement to register for employment services per Georgia Employment Security Law Rules 300-2-4-.02. Such individuals are not required to be nor certify on a weekly basis to be able, available and actively seeking work.

Summary

Effective December 6, 2021, the EFC process was revised to require individuals (employees) to complete an EFC profile to include a real-time identity verification before payments can be made. Employers are responsible for submitting the request for the payment to certify to the individual's employment status but the individuals must certify their identity and personal information for the claim to be processed. Employees are notified when a claim is filed on their behalf and provided instructions for their portion of completing the EFC process. The MyUI dashboard provides all the EFC correspondence sent to the individual as well as a status of the profile set up and identify verification.

GDOL has no plans to stop utilizing the EFC program as it is an effective and popular program among employers with a successful 60-year track record.

GDOL greatly appreciates the feedback and recommendations and will consider this information in future endeavors to modernize and update system and business processes.

Auditor's Concluding Remarks:

The Georgia Department of Audits and Accounts (DOAA) acknowledges the overwhelming burden placed on the DOL due to the effects of the COVID-19 pandemic and the urgency with which payments were made to the unemployed citizens of Georgia. However, as noted in the finding details above, the DOAA has not suggested that the DOL discontinue the use of the employer-filed claims process but recommended that employee verification procedures be added to the process. Moreover, it appears that the DOL implemented these recommended employee verification processes after the audit period concluded.

We reaffirm our finding and will review the status of the finding during our next audit.

FEDERAL AGENCY: U.S. DEPARTMENT OF LABOR (continued)

STATE ENTITY: DEPARTMENT OF LABOR (continued)

2021-037 Improve Controls over Financial Reporting

Compliance Requirement: Reporting

Internal Control Impact: Significant Deficiency

Compliance Impact: Nonmaterial Noncompliance Federal Awarding Agency: U.S. Department of Labor

Pass-Through Entity: None

AL Numbers and Titles: 17.225 – Unemployment Insurance

17.225 - COVID-19 - Unemployment Insurance

Federal Award Number: UI312881855A13 (Year: 2018), UI325941955A13

(Year: 2019), UI340532055A13 (Year: 2020),

UI347102055A13 (Year: 2020)

Questioned Costs: None Identified

Description:

The Georgia Department of Labor submitted inaccurate financial reports for the Unemployment Insurance Program to the U.S. Department of Labor.

Background Information:

Every grant awarded by the U.S. Department of Labor's Employment and Training Administration (ETA) requires accurate quarterly and annual reporting as a part of sound financial and management responsibilities. This reporting supports the ETA's ability to measure fund utilization for performance accountability and assess compliance with statutory expenditure requirements. This information also helps measure successful outcomes for participants, ensure sound service delivery and reporting practices, and determine whether the federal funds achieved maximum benefit.

The ETA 9130, Financial Status Report is used to report program and administrative expenditures. The Georgia Department of Labor (DOL) is required to submit quarterly financial reports for each UI program that they operate within 45 days after the end of reporting quarter. Financial data is required to be reported cumulatively from grant inception through the end of each reporting period.

Criteria:

As a recipient of federal awards, the DOL is required to establish and maintain effective internal control over federal awards that provides reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal awards pursuant to Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance), Section 200.303 – Internal Controls.

Provisions included in the Uniform Guidance, Section 200.302(a) state, in part, that "the non-Federal entity's financial management systems must... be sufficient to permit the preparation of reports required by general and program-specific terms and conditions." In addition, provisions included in the Uniform Guidance, Section 200.302(b)(2) state, in part, that the non-Federal entity's financial management systems must provide for "accurate, current, and complete disclosure of the financial results of each Federal award or program in accordance with the reporting requirements."

Condition:

The ETA-9130 reports for the quarters ending December 2020 and June 2021 were reviewed to ensure that program and administrative expenditures were reported in a timely and accurate manner. For seven of the 37 reports tested, the amounts reported did not agree with the amounts reflected in the accounting records. Variances identified on each report are as follows:

			Variances Identified			
			Federal	Federal Share of		Unobligated Balance of
		Report	Share of	Unliquidated	Total Federal	Federal
Description	Award Number	Date	Expenditures	Obligations	Obligations	Funds
Emergency Unemployment Compensation	UI312881855A13- UI31288BCo	12/31/2020	-	319	319	(319)
Emergency Unemployment Compensation (Admin)	UI312881855A13- UI31288IK0	12/31/2020	1	159	159	(159)
PEUC Administration	UI347102055A13- UI34710Z70	12/31/2020	869,416	95,248	964,665	(964,665)
UI State Administration	UI340532055A13- UI34053V70	12/31/2020	16,653,491	(1,635,889)	1,507,602	(1,507,602)
UI State Administration	UI325941955A13- UI32594Q11	6/30/2021	-	(55,063)	(55,063)	55,063
PEUC Administration	UI347102055A13- UI34710Z70	6/30/2021	4,758,615	91,941	4,820,557	(4,820,557)
PUA Administration	UI347102055A13- UI34710C80	6/30/2021	-	(2,640,485)	(2,640,485)	2,640,485

Cause:

Separate ETA-9130 reports must be completed for each program and each fund source (subaccount) awarded to the DOL. While the DOL utilizes one general ledger report to prepare some ETA-9130 reports, the DOL uses multiple general ledger reports to prepare other ETA-9130 reports. For the seven reports that reflected variances, the DOL did not appropriately deduct general ledger amounts related to other programs when entering data on the ETA reporting site.

Effect:

The submitting of inaccurate ETA-9130 reports resulted in noncompliance with federal regulations and the Uniform Guidance. Additionally, submitting incorrect reports diminishes the U.S. Department of Labor's ability to effectively monitor the UI program.

Recommendation:

We recommend that the DOL review existing policies and procedures to ensure that it has established and is maintaining internal controls related to compliance with federal laws, regulations, and program compliance reports. This review should specifically address requirements for preparing the ETA-9130 reports. The DOL should ensure that personnel responsible for the ETA-9130 reports are appropriately trained and are familiar with these compliance requirements.

In addition, we recommend that the DOL create queries and general ledger reports that only report the expenditures charged to each individual program as reflected on the grant award. Furthermore, spreadsheets and tools should be developed to balance report totals and identify errors before entering amounts into the federal reporting website.

Views of Responsible Officials:

We concur with this finding:

In initial periods of COVID grant awards some of our allocations were modified to adapt to the crisis which necessitated timing adjustments. Despite severe short-staffing and exponential increase in volume during FFY ended 9/30/2021, GDOL created additional queries and reports to assure that PMS documents were appropriately reconciled to our ledgers. With the addition of these tools, all submitted ETA-9130 reports were correctly stated as of 9/30/2021. As to the variances notated for these reports:

UI312881855A13/UI31288BCO dated 12/31/2020, it was determined that the unliquidated balance was not expended during the grant period ending 12/31/2020. Since this grant was closed out on 2/3/2021, no additional entries are required.

UI312881855A13/UI31288IKO dated 12/31/2020, it was determined that the unliquidated balance was not expended during the grant period ending 12/31/2020. Since this grant was closed out on 2/3/2021, no additional entries are required.

UI347102055A13/UI34710Z70 dated 12/31/2020. It was determined that the Obligational Authority was reached; the adjustment amount was included on report UI347102055A13/UI34710CIO dated 9/30/2021 which was also PEUC Administration.

UI340532055A13/ UI34053V70 dated 12/31/2020. It was determined that the Obligational Authority was reached and the adjustment amount was included in the final report dated 12/31/2020.

UI325941955A13/ UI32594Q11 dated 6/30/2021. It was determined that all of the expenses for the grant were recorded at PMS Doc# Q11 rather than splitting between PMS Doc#Q11 and PMS Doc #Q10 which are both PEUC Admin. On subsequent reports, PMS Doc Q11 is fully expended and PMS Doc Q10 is used to avoid duplication.

UI347102055A13/ UI34710Z70 dated 6/30/2021. It was determined that the Obligational Authority was reached; however, the adjustment amount was included on report UI347102055A13/ UI34710CIO dated 9/30/2021 which was also PEUC Administration. UI34710205A13/ UI34710C80 dated 6/30/2021. An adjustment was recorded in the books in July 2021 and the expenditures were reflected on report UI347102055A13/ UI34710CIO dated 9/30/2021.

Corrective action implemented.

FEDERAL AGENCY: U.S. DEPARTMENT OF LABOR (continued)

STATE ENTITY: DEPARTMENT OF LABOR (continued)

2021-038 Improve Controls over the Identification, Recording, and Reporting of Overpayments

Compliance Requirement: Reporting

Special Tests and Provisions

Internal Control Impact: Material Weakness

Compliance Impact: Material Noncompliance
Federal Awarding Agency: U.S. Department of Labor

Pass-Through Entity: None

AL Numbers and Titles: 17.225 – Unemployment Insurance

17.225 - COVID-19 - Unemployment Insurance

Federal Award Number: UI312881855A13 (Year: 2018), UI325941955A13

(Year: 2019), UI328341960A13 (Year: 2019),

UI340532055A13 (Year: 2020), UI341592055A13 (Year: 2020), UI344912060A13 (Year: 2020), UI347102055A13 (Year: 2020), UI356432155A13 (Year: 2021), UI356992155A13 (Year: 2021),

UI359392160A13 (Year: 2021)

Questioned Costs: None Identified

Repeat of Prior Year Finding: 2020-038

Description:

The Georgia Department of Labor did not maintain adequate controls over the identification, recording, and reporting of benefit overpayments associated with the Unemployment Insurance programs.

Background Information:

The Unemployment Insurance (UI) program, created by the Social Security Act (Pub. L. No. 74-271), provides Unemployment Compensation (UC) benefits to workers who are unemployed through no fault of their own and are seeking reemployment. To receive benefits, claimants must be able to work, available for work, and actively seeking work.

On March 27, 2020, the Coronavirus Aid, Relief, and Economic Security (CARES) Act was signed into law. The CARES Act was designed to mitigate the economic effects of the COVID-19 pandemic in a variety of ways, including providing additional UI provisions.

Title II, Subtitle A of the CARES Act, authorizes the following temporary UI programs:

- Federal Pandemic Unemployment Compensation (FPUC) The FPUC program provides eligible individuals with \$600 per week in addition to the weekly benefit amount they receive from certain other UC (Unemployment Compensation) programs.
- Pandemic Emergency Unemployment Compensation (PEUC) The PEUC program
 provides up to 13 weeks of benefits to individuals who have exhausted all rights to
 regular compensation under state law or Federal law with respect to a benefit year that
 ended on or after July 1, 2019, have no rights to regular compensation with respect to a
 week under any other State or Federal UC law, are not receiving compensation with
 respect to such week under the UC law of Canada, and are able to work, available to
 work, and actively seeking work.
- Pandemic Unemployment Assistance (PUA) The PUA program provides up to 39
 weeks of benefits to those individuals who are not eligible for regular UC or extended
 benefits under State or Federal law or PEUC, including those who have exhausted all
 rights to such benefits.

In addition, the State Extended Benefits (SEB) program, which is an extension of UC benefits, becomes available for payment when the State's 13-week insured unemployment rate (IUR) exceeds 5% and pays claimants up to an additional 13 weeks of compensation. Under the SEB program, the State is required to provide 50% of the amounts paid to the majority of eligible SEB claimants, which are those not covered by Federal law or special provisions of State law. However, under the CARES Act, the U.S. Department of Labor will reimburse the State at 100% of eligible costs for the SEB program.

The State of Georgia became eligible to pay SEB May 10, 2020. However, the first payable weekending date (WED) was on July 4, 2020, as the first payable WED of PEUC was April 4, 2020. Further, the last payable WED for SEB was February 6, 2021.

Furthermore, the U.S. Department of Labor requires state agencies, including the Georgia Department of Labor (DOL), to prepare and submit various Employment Training Administration reports periodically. Benefit overpayment activity is based on a report from the benefits system and reflected on the following reports:

- ETA 227 Overpayment Detection and Recovery Activities report: The ETA 227 report provides information on non-fraud and fraudulent overpayments of intrastate and interstate claims under the regular state UI program, and under Federal UI programs, including those created by the CAREES Act with exception of PUA. The DOL's accomplishments in principal detection areas of benefit payment control are shown on the ETA 227 report. The ETA and state agencies needs such information to monitor the integrity of the benefit payment processes in the UI system.
- ETA 902P Pandemic Unemployment Assistance Activities: The ETA 902P report is submitted electronically each month providing PUA activities performed during the preceding calendar month, including non-fraud and fraudulent overpayment activity and administration.

The DOL paid out more than \$2.5 billion and \$9.2 billion in UC and CARES Act benefits, respectively, to over 1.1 million individuals for the fiscal year under review.

Criteria:

As a recipient of federal awards, the DOL is required to establish and maintain effective internal control over federal awards that provides reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal awards pursuant to Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance), Section 200.303 – Internal Controls.

Title 34, Chapter 8, Article 9 of the Official Code of Georgia Annotated (OCGA) §34-8-254 defines overpayments as the sum of benefits received by any person while any conditions for the receipt of benefits were not fulfilled or while the person was disqualified from receiving benefits. OCGA §34-8-254 assigns legal responsibility and authority for the collection of overpayments to the Commissioner of the DOL.

Additionally, per the UI Report Handbook No. 401, the ETA 227 and ETA 902P reports are required to be submitted to the U.S. Department of Labor in a timely and accurate manner. The ETA 227 reports are due quarterly on the first day of the second month after the quarter of reference, and all applicable date on the ETA 227 reports should be traceable to the data regarding overpayments and recoveries in the state's financial accounting system. The ETA 902P report is due on the 30th of the month following the month to which data relate and should contain monthly data on PUA activities.

Condition:

In an effort to assess risk and plan audit procedures, auditors obtained an understanding of the internal controls over the processes for identifying and recording overpayments. In performing these procedures, the DOL stated that crossmatches used to identify possible overpayments were several quarters behind. Typically, the DOL runs crossmatches three to six months after a quarter's benefits have been paid. However, the crossmatches for third quarter of 2020, which includes the months of July 2020 to September 2020, were not completed until September 2, 2021. Further, these crossmatches only included claimants paid regular UI benefits as the DOL was still testing the crossmatching process related to the CARES Act UI programs.

Additionally, prior to the pandemic, the DOL reviewed 100% of the matches they received from the wage crossmatch process. Since the COVID-19 pandemic started, the DOL has had a significant increase in matches. The DOL stated that there were approximately 588,000 matches in the third quarter of 2020. Because the DOL's Overpayment Unit has limited resources, a policy has been adopted to only review a percentage of the matches; therefore, the third-party vendor communicates the number of matches to the DOL, and the DOL communicates the percentage of these matches they would like uploaded to the Benefit Audit, Reporting, and Tracking System (BARTS). These matches are, then, investigated by the DOL.

Upon requesting information associated with crossmatch identifications and the number of cases loaded into BARTS for overpayment investigation, the DOL stated the following:

• The crossmatches for the first quarter of 2020, which includes the months of January 2020 to March 2020, were completed on February 10, 2021. For regular UI programs, 51,346 matches were identified, and all of these cases were loaded into BARTS to be reviewed.

- The cross matches for the second quarter of 2020, which includes the months of April 2020 to June 2020, were completed on April 13, 2021. For regular UI programs, 51,559 matches were identified, and all of these cases were loaded into BARTS to be reviewed.
- The crossmatches for the third quarter of 2020, which includes the months of July 2020 to September 2020, were completed on September 2, 2021. For regular UI programs, 54,992 matches were identified, and all of these cases were loaded into BARTS to be reviewed.
- The crossmatch process for the fourth quarter of 2020, which includes the months of October 2020 to December 2020, was completed on March 16, 2022.
- For all quarters in 2020, the system to match PUA overpayments was still in the testing phase and not operational; therefore, no PUA overpayments were identified or recorded during the period under review. However, it was noted that the crossmatches for the first quarter of 2020 were completed on February 8, 2022 and the crossmatches for the second quarter of 2020 were completed on December 10, 2021.

Based upon this information, auditors requested a complete population of overpayment cases and a reconciliation of the population to data reported on the ETA 227 and ETA 902P reports. Auditors planned to select a sample of overpayment cases that the DOL had established during the fiscal year under review and verify that the DOL was properly identifying and handling overpayments. Although the DOL provided a population of overpayment cases, a reconciliation of the data to the ETA 227 and ETA 902P reports was not be provided. While auditors attempted to reconcile the data to ensure that the population of overpayment cases was complete and accurate, this attempt was unsuccessful. Furthermore, initial crossmatch information provided to auditors during the audit planning process was not consistent with the detail of crossmatch identifications provided as the DOL stated that approximately 588,000 matches occurred during the third quarter of 2020 but only 54,992 matches could be documented. Therefore, auditors were not able to complete testing over overpayments.

Cause:

The benefit system was unable to track and provide reporting related to the CARES Act UI programs. The DOL did not have the ability to easily run transaction-level or claimant-level queries for overpayments in their systems. Furthermore, the DOL did not regularly reconcile overpayment data to subsystems, federal reports, or accounting records and was not able to do so in a timely manner when requested by DOAA and SAO. The DOL dedicated its resources to higher priorities to support its mission-essential functions due to the COVID-19 pandemic. Consequently, this delayed implementation of necessary system configurations required to support the overpayment processes until March of 2021.

Effect:

Due to the lack of controls, there is an increased risk that possible fraudulent claims and improper benefits paid during the fiscal year 2021 will not be identified and investigated. The deficiencies in the identification and recording of benefit overpayments resulted in noncompliance with federal and state regulations. Additionally, inaccurate reports were likely filed with the U.S. Department of Labor. Furthermore, the lack of accurate and complete data associated with benefit overpayments prevented auditors from testing compliance requirements associated with overpayments. These unknown factors, along with additional issues, are the basis for our adverse of opinion on the UI program.

Recommendation:

The DOL management should develop and implement procedures to identify and record benefit overpayments in a timely and accurate manner. These procedures should allow for the tracking of information by fiscal year and periodic reconciliation of detail records to the general ledger and various required reports. In addition, the DOL should dedicate appropriate resources and develop a plan to complete any remaining system modifications necessary to support the identification, tracking and reporting of overpayments both internally and to the U.S. Department of Labor associated with the CARES Act UI programs.

Views of Responsible Officials:

GDOL concurs in part with this finding with the following explanations:

USDOL provides guidance and recommended procedures for crossmatches but does not dictate a frequency or cadence for performing them. The crossmatch process is conducted using Onpoint BARTS software which runs a systematic check against weeks in a quarter for which benefits are paid and wages are reported during the same quarter. Although the program may detect weeks paid and wages reported, this alone is not indicative of an overpayment. Therefore, the process involves verification correspondence being sent to both the claimant and the employer to verify the status of employment, the wages earned as well as the weeks in which an individual worked and earned the wages. Based on responses from both or either party, an assessment is made to determine if an overpayment exists and subsequent actions are taken accordingly. We are prohibited from assuming a match is an overpayment. It is not an overpayment until we have completed all the due process to the claimant.

The audit report indicates misinterpretation of the data reflected on the federal reports, specifically the ETA 227. The ETA 227 is for reporting of overpayment detection and recovery activities that the Agency performed in a quarter. It is not for reporting the amount of benefits overpaid for specific weeks during that quarter.

The Department will take the necessary actions to complete the overpayment reconciliation for the ETA 227 reports and 902 reports at the end of the calendar year.

Due to the volume of claims and the number of cross matches that needed to be performed on all state and federal pandemic programs, it would require multiples of current GDOL staffing levels to review all cross matches, requiring increase levels of state and federal funding. Federal regulations require an actual person to review and establish fraudulent overpayments. Summary

GDOL has developed an aggressive plan to complete all remaining state and pandemic program cross matches. We have filled all of our budgeted positions for the Overpayment Unit and are utilizing non-overpayment staff to assist with identification and overpayment investigations. Additionally, we are utilizing temp agency staff to perform some clerical duties; however, federal regulations prohibit non-merit staff from adjudicating and releasing overpayment decisions. We are starting to freeze the overpayment data at the end of every month so that we can conduct periodic reconciliation of the overpayment records.

GDOL greatly appreciates the feedback and recommendations and will consider this information in future endeavors to modernize and update system and business processes.

Auditor's Concluding Remarks:

The Georgia Department of Audits and Accounts (DOAA) acknowledges the overwhelming burden placed on the DOL due to the effects of the COVID-19 pandemic and the urgency with

which payments were made to the unemployed citizens of Georgia. However, as noted in the finding details above, it is clear that procedures associated with the identification, recording, and reporting of UI benefit overpayments were not performed in a timely and accurate manner.

We reaffirm our finding and will review the status of the finding during our next audit.

FEDERAL AGENCY: U.S. DEPARTMENT OF LABOR (continued)

STATE ENTITY: DEPARTMENT OF LABOR (continued)

2021-039 Strengthen Logical Access Controls

Compliance Requirement: Special Tests and Provisions

Internal Control Impact: Significant Deficiency

Compliance Impact: Nonmaterial Noncompliance Federal Awarding Agency: U.S. Department of Labor

Pass-Through Entity: None

AL Numbers and Titles: 17.225 – Unemployment Insurance

17.225 - COVID-19 - Unemployment Insurance

Federal Award Number: UI312881855A13 (Year: 2018), UI325941955A13

(Year: 2019), Ul328341960A13 (Year: 2019), Ul340532055A13 (Year: 2020), Ul341592055A13 (Year: 2020), Ul344912060A13 (Year: 2020), Ul347102055A13 (Year: 2020), Ul356432155A13

(Year: 2021), UI356992155A13 (Year: 2021),

UI359392160A13 (Year: 2021)

Questioned Costs: None Identified

Repeat of Prior Year Finding: 2020-037

Description:

The Georgia Department of Labor should strengthen logical access controls over the unemployment insurance system.

Background Information:

See Financial Finding at 2021-005.

Criteria:

See Financial Finding at 2021-005.

Condition:

See Financial Finding at 2021-005.

Cause:

See Financial Finding at 2021-005.

Effect:

See Financial Finding at 2021-005.

Recommendation:

See Financial Finding at 2021-005.

Views of Responsible Officials:

The Department concurs with this finding:

- a) The Department agrees that the objective of the logical controls process is to avoid the unnecessary risk of unauthorized access to the unemployment insurance and possible manipulation or loss of data.
- b) During the FY20 and FY21 periods, the agency was operating under exceptional circumstances due to the COVID-19 pandemic. The GDOL was faced with multiple priorities while attempting to process the unprecedented volume of unemployment benefits claims established through regular UI, as well as the five new federal programs enacted by congress.
- c) During the pandemic, in order to help provide timely payments to eligible claimants, many users within the agency were granted additional access, commensurate to their additional responsibilities, to help process the overwhelming volume of claims. A user's "normal" role may not require additional transactional access, however the "expanded" roles did require it in order to work to process claims in a timely manner. Everyone at the agency had expanded roles and responsibilities in the "all-hands-on-deck" approach that was necessary and required by the agency in order to process the overwhelming volume of more than five million claims received during this unprecedented time.
- d) GDOL Information Technology instituted a process in FY16 for performing annual global access monitoring, to insure users only have access to the information for which they are authorized and need to perform their official duties, as well as to serve to further mitigate any risk of unauthorized access to systems within the Department network. This process has subsequently been executed annually from FY16 through FY19 as part of our standard operating procedure. The Information Technology division enhanced the annual transaction access review in FY19 to include a biennial role design review with the appropriate business units to insure transactions assigned to the role continue to be appropriate based on job responsibilities and business functions.

FEDERAL AGENCY: U.S. DEPARTMENT OF THE TREASURY

STATE ENTITY: OFFICE OF THE GOVERNOR

2021-040 Continue to Improve Internal Controls Activities over the Coronavirus Relief Fund

Compliance Requirement: Activities Allowed or Unallowed

Allowable Costs/Cost Principles

Reporting

Internal Control Impact: Significant Deficiency

Compliance Impact: Nonmaterial Noncompliance Federal Awarding Agency: U.S. Department of Treasury

Pass-Through Entity: None

AL Number and Title: COVID-19 – 20.019 – Coronavirus Relief Fund

Federal Award Number: None Provided (Year:2020)

Questioned Costs:\$8,355.00Repeat of Prior Year Finding:2020-040

Description:

The Governor's Office of Planning and Budget should continue to strengthen internal controls to ensure that appropriate reviews and approvals occur and adequate documentation is maintained for expenditures and reporting related to the Coronavirus Relief Fund.

Background Information:

On March 27, 2020, the Coronavirus Aid, Relief, and Economic Security (CARES) Act was signed into law. The CARES Act was designed to mitigate the economic effects of the COVID-19 pandemic in a variety of ways, including providing additional funding for State, Local, and Tribal governments navigating the impact of the COVID-19 outbreak.

Title VI, Section 601 of the CARES Act appropriated \$150 billion to States, Tribal governments and units of local government through the establishment of the Coronavirus Relief Fund (CRF). Of this funding, the State of Georgia received \$3.5 billion. The Governor's Office of Planning and Budget (OPB) was designated as the custodian of the CRF funds for the State of Georgia. In that capacity the OPB was responsible for overseeing the review, approval, and disbursement of reimbursements.

The State of Georgia is also required to report details associated with these expenditures to the U.S. Department of Treasury's Office of Inspector General. The information is submitted through the GrantSolutions portal and reflected on the quarterly Financial Progress Report. This data is provided to the Pandemic Response Accountability Committee (PRAC) and published on its website, as well.

CRF funds totaling \$2.3 billion were expended and reported on the State of Georgia's *Schedule of Expenditures of Federal Awards* (SEFA) for fiscal year 2021.

As part of our fiscal year 2021 audit, we followed up on the OPB's efforts to implement corrective action plans in response to the prior year finding in which we reported that the OPB needed to strengthen internal controls to ensure that appropriate reviews and approvals occur and adequate documentation is maintained for expenditures and reporting related to the CRF program.

Criteria:

As a recipient of federal awards, the OPB is required to establish and maintain effective internal controls over federal awards that provide reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal award pursuant to Title 2. U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance) Section 200.303 – Internal Controls.

Additionally, Title VI, Section 601(d) of the CARES Act as amended by the Consolidated Appropriations Act of 2021 provides guidance for the use of CRF funds and states: A State, Tribal government, and unit of local government shall use the funds provided... to cover only those costs of the State, Tribal government, or unit of local government that – (1) are necessary expenditures incurred due to the public health emergency with respect to the Coronavirus Disease 2019 (COVID-19); (2) were not accounted for in the budget most recently approved as of the date of enactment of this section for the State or government; and (3) were incurred during the period that begins on March 1, 2020 and ends on December 31, 2021.

In OPB's corrective action plan related to fiscal year 2020 finding 2020-040, the defined control being established for the review of allowability of expenditures under the confines of the CRF program was the use of a grants management system. This system includes two levels of review, which includes a review of supporting documentation, prior to the approval of submitted reimbursement requests. Additionally, the corrective action plan states the OPB will maintain evidence of supervisory review and approval of the Financial Progress Reports.

Condition:

Upon review of the Financial Progress Reports submitted throughout the fiscal year, it was noted that no improvements in the documenting of the review and approval of these reports occurred from the prior year. As noted previously, the auditors were able to review the Financial Progress Report reconciliation performed by the OPB and determine the report was materially accurate; however, no evidence of a formal supervisory review and approval of this reconciliation was maintained on-file.

For those expenditures processed through the grants management system, a sample of 60 expenditure transactions were randomly selected for testing using non-statistical sampling methods. Auditors found that CRF funds in the amount of \$8,355 were advanced to a subrecipient and no supporting expenditure documentation was submitted to keep the funds as required per the OPB's policy.

Auditors also noted that expenditures totaling \$453,012,682 were reported on the SEFA as of year-end but had not yet been processed through the grants management system review process as described in OPB's prior year corrective action plan. The OPB management indicated that these expenditures were reported on the SEFA based on informal conversations held between

the OPB and those state agencies requesting funds without reviewing the underlying documentation and documenting approval in the grants management system.

A sample of 60 of these expenditures was randomly selected for testing using non-statistical sampling methods. Through our review against the criteria for allowability, no unallowable expenditures were identified in the sample. Supporting documentation of the expenditures was maintained at each respective state agency.

Questioned Costs:

Known questioned costs of \$8,355 were identified for the one undocumented expenditure included in the sample of CRF expenditures processed through the grants management system. Using the population of CRF expenditures processed through the grants management system, which totaled \$512,961,368, we project the likely questioned costs to be approximately \$429,763.

Cause:

The OPB did not maintain documentation of review and approval of the Financial Progress Reports submitted to the PRAC. In addition, the OPB did not consistently follow its documented internal control processes and prior year corrective action plan in reviewing and approving CRF expenditures.

Effect:

The lack of proper review and approval increases the risk that inappropriate information could be transmitted on the Financial Progress Report and published on the PRAC website.

The unallowable payments identified by auditors resulted in potential noncompliance with federal regulations and questioned costs. By not complying with federal regulations, the OPB risks having to repay federal funds or having future federal funds withheld.

By not following documented internal controls nor conducting a timely review and approval of expenditures, there is increased risk that unallowable activities and costs could be charged to the CRF program.

Recommendation:

The OPB management should also ensure that evidence of supervisory review and approval of the Financial Progress Report is maintained on-file.

The OPB should seek appropriate documentation or request repayment from the subrecipient for which adequate supporting documentation was not submitted.

As the period of performance for the CRF program ended on December 31, 2021, the OPB should follow its established internal controls and review, approve and document all expenditures in the grants management system to ensure compliance with grant program requirements.

Views of Responsible Officials:

We do not concur with this finding.

With regards to the \$453,012,682 reflected in the SEFA that had not yet been reimbursed through OPB's grant management system, OPB does not agree with DOAA's assessment that this increases risk of unallowable activities or costs being charged to the CRF program.

OPB worked closely with each state agency in reviewing expenses incurred as a result of an agency's pandemic response. OPB conducts quarterly expense reviews of all agencies, reviews financial information in processing budgetary amendments to recognize CRF in an agency's budget, reviews all expenses prior to reporting them through the Financial Progress Report, and conducts a two-level review of supporting documentation of all expenses prior to the release of funds on a reimbursement basis only through its grant management system. The majority of the funds that had not yet been reimbursed through the grants management system but had already been paid as an expense were related to a surge medical staffing contract held by the Department of Community Health. OPB, in conjunction with the direction of the Governor, authorized the encumbrance of CRF funds via contract with the provider. OPB and the Department communicated weekly regarding activity on the contract and current expense. Given the timing of medical billing and the volume of documentation associated with invoicing on the contract, there were timing delays between the Department incurring the expense and submitting for reimbursement through the grant management system. As a result of OPB's continuous review of agency pandemic response activities, almost no expenses ultimately submitted through the grants management system for reimbursement were rejected due to unallowability, and as DOAA noted, in its review of sampled expenses, none were found to be unallowable.

In submitting the quarterly federal Financial Progress Report, the report information was entered by the Deputy Director of OPB based on data provided by the State Accounting Office and through OPB's GrantCare system and was subsequently reviewed by either the Director of Administration or the Grants Manager prior to official submittal to the federal government. OPB provided documentation of emails and meeting notices between the Deputy Director and either the Director of Administration or Grants Manager to review the supporting report documentation. In order to facilitate documentation for future audit review, OPB will subsequently collect an official signature page from the Director of Administration attesting to his or her review of the underlying report prior to report submission.

Finally, as part of the closeout process for the Coronavirus Relief Fund, OPB has notified any local governments who received advance funding and did not provide adequate documentation of expense, including the \$8,355 noted by the Department of Audits and Accounts. OPB is in the process of recouping those funds to return to the federal government.

Auditor's Concluding Remarks:

The Georgia Department of Audits and Accounts (DOAA) acknowledges the overwhelming burden placed on various State agencies, including the OPB, due to the effects of the COVID-19 pandemic and the urgent response necessary. However, as reflected in the "Criteria" above, recipients of federal awards are required to establish and maintain effective internal controls over all applicable compliance requirements. Additionally, provisions included in the Uniform Guidance, Section 200.514 require auditors to test these internal controls, and when internal controls cannot be tested or are deemed ineffective, issue a significant deficiency or material weakness finding. As noted in the "Condition" above, auditors did not observe the appropriate evidence of approval for those expenditures that had not been processed through the grants management system or the appropriate evidence of review and approval of the Financial Progress Reports.

We reaffirm our finding and will review the status of the OPB's corrective action during our next audit.

FEDERAL AGENCY: U.S. DEPARTMENT OF THE TREASURY (continued)

STATE ENTITY: OFFICE OF THE GOVERNOR (continued)

2021-041 Improve Controls over Subrecipient Monitoring

Compliance Requirement: Subrecipient Monitoring

Internal Control Impact: Material Weakness

Compliance Impact: Material Noncompliance
Federal Awarding Agency: U.S. Department of Treasury

Pass-Through Entity: None

AL Number and Title: COVID-19 - 20.019 - Coronavirus Relief Fund

Federal Award Number: None Provided (Year:2020)

Questioned Costs: None Identified

Description:

The Governor's Office of Planning and Budget should improve internal controls to ensure that required risk assessments for subrecipients are performed appropriately.

Background Information:

On March 27, 2020, the Coronavirus Aid, Relief, and Economic Security (CARES) Act was signed into law. The CARES Act was designed to mitigate the economic effects of the COVID-19 pandemic in a variety of ways, including providing additional funding for State, Local, and Tribal governments navigating the impact of the COVID-19 outbreak.

Title VI, Section 601 of the CARES Act appropriated \$150 billion to States, Tribal governments and units of local government through the establishment of the Coronavirus Relief Fund (CRF). Of this funding, the State of Georgia received \$3.5 billion. The Governor's Office of Planning and Budget (OPB) was designated as the custodian of the CRF funds for the State of Georgia and was charged with subawarding funds to local governments and non-governmental organizations, reviewing and approving expenditures, and disbursing reimbursements for this expenditure activity.

CRF funds totaling \$409.2 million were expended and reported on the State of Georgia's Schedule of Expenditures of Federal Awards (SEFA) as being passed through to subrecipients, including cities, counties, and not-for-profit and for-profit organizations, for fiscal year 2021.

Criteria:

As a recipient of federal awards, the OPB is required to establish and maintain effective internal control over federal awards that provides reasonable assurance of managing the federal awards in compliance with federal statutes, regulations, and the terms and conditions of the federal awards pursuant to Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance), Section 200.303 – Internal Controls.

Additionally, provisions included in the Uniform Guidance, Section 200,331 establish requirements for pass-through entities and state in part that "All pass-through entities must... (b) Evaluate each subrecipient's risk of noncompliance with Federal statutes, regulations, and the terms and conditions of the subaward for purposes of determining the appropriate subrecipient monitoring..., which may include consideration of such factors as: (1) The subrecipient's prior experience with the same or similar subawards; (2) The results of previous audits including whether or not the subrecipient receives a Single Audit in accordance with Subpart F—Audit Requirements of this part, and the extent to which the same or similar subaward has been audited as a major program; (3) Whether the subrecipient has new personnel or new or substantially changed systems; and (4) The extent and results of Federal awarding agency monitoring (e.g., if the subrecipient also receives Federal awards directly from a Federal awarding agency)... (d) Monitor the activities of the subrecipient as necessary to ensure that the subaward is used for authorized purposes, in compliance with Federal statutes, regulations, and the terms and conditions of the subaward; and that subaward performance goals are achieved. Pass-through monitoring of the subrecipient must include... (2) Followingup and ensuring that the subrecipient takes timely and appropriate action on all deficiencies pertaining to the Federal award provided to the subrecipient from the pass-through entity detected through audits, on-site reviews, and other means. (3) Issuing a management decision for audit findings pertaining to the Federal award provided to the subrecipient from the passothroguh entity... (f) Verify that every subrecipient is audited as required by Subpart F – Audit Requirements of this part when it is expected that the subrecipient's Federal awards expended during the respective fiscal year equaled or exceeded the threshold set forth... (g) Consider whether the results of the subrecipient's audits, on-site reviews, or other monitoring indicate conditions that necessitate adjustments to the pass-through entity's own records. (h) Consider taking enforcement against noncompliant subrecipients.'

Condition:

The OPB did not comply with pass-through entity requirements associated with subrecipients during the period under review. The OPB was unable to locate any evidence that required risk assessments, which reflected the OPB's evaluation of the risk of noncompliance with federal regulations and the terms and conditions of the subaward, were performed for subrecipients of the CRF program. Additionally, the OPB did not verify that audits of subrecipients were conducted for those expending \$750,000 or more in federal funds. Further, the results of these audits were not considered in the risk assessment process and followed-up on to ensure that the subrecipients took appropriate and timely action to correct any deficiencies noted in the audits.

Cause:

The OPB has no policies or procedures in place to address how risk assessments of subrecipients should be performed and documented. Additionally, the OPB has no policies and procedures in place to ensure subrecipients were audited and that results of the audit are reviewed so that prompt and meaningful management decisions can be issued in accordance with federal requirements. The OPB management were unaware of all the oversight responsibilities of pass-through entities under the Uniform Guidance and believed they were meeting the requirements through their established process of reviewing all expense reimbursement requests.

Effect:

The subrecipient monitoring deficiencies resulted in noncompliance with federal regulations. Without effective subrecipient monitoring controls in place to ensure compliance with all applicable federal requirements, there is an increased risk of federal funds being expended for

unallowable purposes, subrecipients not properly administering federal programs in accordance with federal statutes, regulations, and the terms and conditions of the subawards, and untimely detection and correction of noncompliance.

Recommendation:

We recommend that the OPB:

- Ensure the required risk assessments are performed and documented, which would allow management to evaluate the results and demonstrate compliance with federal requirements;
- Utilize the results of risk assessments to determine how much and what type of monitoring of subrecipients will be performed to ensure proper accountability and compliance with program requirements; and
- Establish adequate internal controls, including policies and procedures, to ensure that subrecipients receive audits when necessary, the results of these audits are considered in the risk assessment process, and timely management decisions are made for any audit findings pertaining to federal awards.

Views of Responsible Officials:

We do not concur with this finding.

OPB disagrees with the finding that there were insufficient internal controls regarding subrecipient risk assessment and monitoring. Coronavirus Relief Funds (CRF) were provided to other state agencies, local governments, and licensed long-term care facilities as emergency financial relief to reimburse these entities for direct disaster response costs. Unlike other traditional federal programs, entities did not apply to OPB to be awarded funds to implement a grant program. Instead, the state used the relief funds to cover already incurred expenses related to the pandemic for pre-selected entities that were hardest hit and directly responding to the national disaster.

Pursuant to Uniform Guidance, Section 200.331, in reviewing these recipients experience with the same or similar subawards, there was no precedence for such previous pandemic emergency response spending for these entities. In selecting nursing home subrecipients, OPB worked with the Department of Community Health to create a list of licensed long-term care facilities under federal mandate to test employees for COVID-19. All facilities were already reviewed and licensed by the state, which includes an affidavit of financial stability from a certified public accountant for assisted living facilities and personal care homes. Long term care facilities are also, with very limited exceptions of private pay only facilities, certified by the Centers for Medicaid and Medicare Services (CMS) as providers and must comply with federal regulations and oversight to maintain that certification. Finally, in evaluating and mitigating risk with subrecipients, no funds were advanced to any facilities and use of funds was limited to reimbursement of COVID-19 testing of employees only. Funds were disbursed on a reimbursement only basis upon review of documentation of expense. Facilities were required to provide invoices and documentation of all expenses prior to the release of funds, and all expense requests underwent a two-level review process within OPB prior to approval. Based on the preselection review and licensure by both federal and state entities coupled with OPB's multi-level review of all documentation of expense prior to the release of funds, OPB found that there should be minimal risk of fraud in disbursing funds to long-term care facilities. With regards to

Single Audit requirements, for-profit entities do not have a federal requirement under 2 CFR 200; however, all long-term care facilities were required to sign a terms and conditions document with OPB establishing requirements for the funds and compliance with applicable federal laws.

Additionally, transfers to local governments were done pursuant to direction from the U.S. Treasury that states were responsible for any such disbursements to local governments not directly receiving CRF from Treasury. Specifically, U.S. Treasury guidance in FAQ 33, states "This statutory structure was based on a recognition that it is more administratively feasible to rely on States, rather than the federal government, to manage the transfer of funds to smaller local governments. Consistent with the needs of all local governments for funding to address the public health emergency, States should transfer funds to local governments with populations of 500,000 or less, using as a benchmark the per capita allocation formula that governs payments to larger local governments. This approach will ensure equitable treatment among local governments of all sizes." Pursuant to the directive from the federal government, Georgia used a per capita formula to determine allocations to local governments based on U.S. Census population estimates for Georgia cities and counties. While 20 percent of funds were disbursed to local governments on an advance basis, OPB required detailed documentation of eligible expense before releasing any additional funds on a reimbursement only basis. Where sufficient documentation was not provided, OPB has issued recoupment notices to those entities. All expenses were reviewed via a two-level review process. Based on the federal government's directive to release funds to local governments and requirement of those local entities to provide specific documentation of all allowable expenses, OPB found the level of risk associated with reimbursing local governments for COVID-19 related expenses to be minimal.

Auditor's Concluding Remarks:

The Georgia Department of Audits and Accounts (DOAA) acknowledges the overwhelming burden placed on the OPB due to the effects of the COVID-19 pandemic and the urgency with which CRF funding was provided to various organizations across Georgia. CRF funds totaling \$409.2 million were reported on the SEFA by OPB as being passed through to subrecipients, and the subrecipient organizations associated with these pass-through funds were tested by auditors. While the OPB implemented various internal controls to monitor the spending of these subrecipients, there are specific procedures that must be completed and documented to comply with subrecipient monitoring requirements, and these requirements, which are reflected in the "Criteria" and "Condition" above, were not met. Additionally, the OPB is required to implement internal controls to address applicable compliance requirements, and no such internal controls were implemented for these subrecipient monitoring requirements.

We reaffirm our finding and will review the status of the OPB's corrective action during our next audit.



Schedule of Expenditures of Federal Awards

The Schedule of Expenditures of Federal Awards (Schedule) is presented for purposes of additional analysis as required by the Uniform Guidance. The Schedule provides a summary of the State's federal program expenditures for the fiscal year ended June 30, 2021.

The Schedule presents total federal awards expended for each individual federal program, cluster, and federal awarding agency. The Notes to the Schedule, which are presented on pages C-148 through C-151, describe the significant accounting policies used in preparing the Schedule and other related information.

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
EPARTMENT OF AGRICULTURE			
			UTAH WEED SUPERVISORS
AGRICULTURAL RESEARCH BASIC AND APPLIED RESEARCH	10.001		ASSOCIATION
AGRICULTURAL RESEARCH BASIC AND APPLIED RESEARCH	10.001		MISSISSIPPI STATE UNIVERSITY
AGRICULTURAL RESEARCH BASIC AND APPLIED RESEARCH	10.001		KWJ ENGINEERING, INC.
AGRICULTURAL RESEARCH BASIC AND APPLIED RESEARCH	10.001		PURDUE UNIVERSITY
AGRICULTURAL RESEARCH BASIC AND APPLIED RESEARCH	10.001		OREGON STATE UNIVERSITY
			THE DAVID AND LUCILE PACKARD
AGRICULTURAL RESEARCH BASIC AND APPLIED RESEARCH	10.001		FOUNDATION
GRICULTURAL RESEARCH BASIC AND APPLIED RESEARCH	10.001		
ANT AND ANIMAL DISEASE, PEST CONTROL, AND ANIMAL CARE	10.025		
ANT AND ANIMAL DISEASE, PEST CONTROL, AND ANIMAL CARE	10.025		
ILDLIFE SERVICES	10.028		
ETLANDS RESERVE PROGRAM	10.072		
DLUNTARY PUBLIC ACCESS AND HABITAT INCENTIVE PROGRAM	10.093		
ILDFIRES AND HURRICANES INDEMNITY PROGRAM PLUS	10.129		
EDERAL-STATE MARKETING IMPROVEMENT PROGRAM	10.156		
ARKET PROTECTION AND PROMOTION	10.163		
RANSPORTATION SERVICES	10.167		
SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	10.170		THE CENTER FOR PRODUCE SAFET
SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	10.170		OREGON STATE UNIVERSITY
SI ECINETI CHOI DEGCK GIVINI PROGRAMI PRIMI BIEL	10.170		KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	10.170		FOUNDATION
SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	10.170		CLEMSON UNIVERSITY
SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	10.170		PENNSYLVANIA STATE UNIVERSITY
			SEVEN RIVERS RESOURCE
			CONSERVATION AND
SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	10.170		DEVELOPMENT COUNCIL
SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	10.170		GEORGIA PEACH COUNCIL
PECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	10.170		
SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	10.170		THE CENTER FOR PRODUCE SAFET
			NATIONAL PECAN SHELLERS
SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	10.170		ASSOCIATION
SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	10.170		GEORGIA CITRUS ASSOCIATION
SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	10.170		THE CENTER FOR PRODUCE SAFET
SPECIALIT CROP BLOCK GRAINT PROGRAIN - PARIN BILL	10.170		THE CENTER FOR PRODUCE SAFET
SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	10.170		THE CENTER FOR PRODUCE SAFET
SI EGILLIT CHOT BEOCK CHANT THOUNGHT TANNIBLE	10.170		THE CENTER FOR PRODUCE SALE
SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	10.170		THE CENTER FOR PRODUCE SAFET
SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	10.170		THE CENTER FOR PRODUCE SAFETY
SPECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	10.170		THE CENTER FOR PRODUCE SAFET
PECIALTY CROP BLOCK GRANT PROGRAM - FARM BILL	10.170		
RADE MITIGATION PROGRAM ELIGIBLE RECIPIENT AGENCY OPERATIONAL FUNDS	10.178		
CRANTE FOR ACRICULTURAL RECEASED CRECIAL RECEASED CO	10 200		VIRGINIA POLYTECHNIC INSTITUTE
GRANTS FOR AGRICULTURAL RESEARCH, SPECIAL RESEARCH GRANTS	10.200		AND STATE UNIVERSITY
GRANTS FOR AGRICULTURAL RESEARCH, SPECIAL RESEARCH GRANTS	10.200		UNIVERSITY OF FLORIDA
GRANTS FOR AGRICULTURAL RESEARCH, SPECIAL RESEARCH GRANTS	10.200		UNIVERSITY OF FLORIDA
GRANTS FOR AGRICULTURAL RESEARCH, SPECIAL RESEARCH GRANTS	10.200		UNIVERSITY OF FLORIDA
·			UNIVERSITY OF FLORIDA
GRANTS FOR AGRICULTURAL RESEARCH, SPECIAL RESEARCH GRANTS	10.200		
·	10.200 10.200 10.200		UNIVERSITY OF FLORIDA UNIVERSITY OF FLORIDA

Assigned By Funder Pass-Through	Total Amount Provided to	Federal	Federal Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
"2016001"		-\$5,244	\$9,514,512	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"018000.340888.09"		\$14,284	\$9,514,512	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"145131"		\$41,943	\$9,514,512	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"F9001994502008" "J2285A-C"		\$57,004 \$63,136	\$9,514,512 \$9,514,512	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831, \$1,233,831,
"2016-65140"		\$160,270	\$9,514,512	N/A	
	\$2,434,364	\$9,183,119	\$9,514,512	RESEARCH AND DEVELOPMENT	\$1,233,831,
	\$29,130	\$842,684	\$2,526,441	N/A	
	\$155,608	\$1,683,757	\$2,526,441	RESEARCH AND DEVELOPMENT	\$1,233,831,
	\$25,632	\$435,733	\$435,733	RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$136,655	\$136,655	N/A	
		\$78,474	\$78,474	N/A	
		\$158,161,713	\$158,161,713	N/A	44 000 004
		\$7,833	\$7,833	RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$9,067	\$9,067	N/A RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$33,424	\$33,424	RESEARCH AND DEVELOPMENT	\$1,255,651,
"2021CPS03"		\$269	\$1,667,993	RESEARCH AND DEVELOPMENT	\$1,233,831,
"K1183AA"		\$3,329	\$1,667,993	RESEARCH AND DEVELOPMENT	\$1,233,831,
		, ,			, , , ,
AM170100XXXXG018"		\$4,101	\$1,667,993	RESEARCH AND DEVELOPMENT	\$1,233,831,
"19432100000000"		\$9,207	\$1,667,993	RESEARCH AND DEVELOPMENT	\$1,233,831,
#6054#0D5DD4700#		440.000	44.667.000	25054201444225151424514	44 222 224
"6051UGRFPDA7029"		\$10,099	\$1,667,993	RESEARCH AND DEVELOPMENT	\$1,233,831,
""		440.057	44.657.000	050540004440005454545454545	44 202 204
"RSRRC0001136001"		\$13,057	\$1,667,993	RESEARCH AND DEVELOPMENT	\$1,233,831,
"RGAPCRD317197CV"		\$16,178	\$1,667,993	RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$17,906	\$1,667,993	RESEARCH AND DEVELOPMENT	\$1,233,831,
"2021CPS05"		\$23,662	\$1,667,993	RESEARCH AND DEVELOPMENT	\$1,233,831,
"RNPSA0001285001"		\$25.277	\$1,667,993	RESEARCH AND DEVELOPMENT	\$1,233,831,
"RGACA0001179801"		\$26,373	\$1,667,993	RESEARCH AND DEVELOPMENT	\$1,233,831,
"2021CPS09"		\$28,619	\$1,667,993	RESEARCH AND DEVELOPMENT	\$1,233,831,
"2021CPS04"		\$41,817	\$1,667,993	RESEARCH AND DEVELOPMENT	\$1,233,831,
"2020CPS08"		\$105,740	\$1,667,993	RESEARCH AND DEVELOPMENT	\$1,233,831,
202001 300		\$103,740	71,007,333	NESEARCH AND DEVELOT MENT	¥1,233,031,
"2020CPS03"		\$117,591	\$1,667,993	RESEARCH AND DEVELOPMENT	\$1,233,831,
"2020CPS04"	\$120,888	\$200,191	\$1,667,993	RESEARCH AND DEVELOPMENT	\$1,233,831,
	\$480,241	\$1,024,577	\$1,667,993	N/A	
	\$730,000	\$5,829,362	\$5,829,362	N/A	
	4.00,000	+- ,,	+ 2,222,232	.4	
"42255919105"		\$1,044	\$29,810	RESEARCH AND DEVELOPMENT	\$1,233,831,
"2100845257"		\$1,058	\$29,810	RESEARCH AND DEVELOPMENT	\$1,233,831,
"2100870156"		\$1,832	\$29,810	RESEARCH AND DEVELOPMENT	\$1,233,831,
"2000778818"		\$4,789	\$29,810	RESEARCH AND DEVELOPMENT	\$1,233,831,
"2100863317"		\$5,000	\$29,810	RESEARCH AND DEVELOPMENT	\$1,233,831,
"20000755014"		\$6,087	\$29,810	RESEARCH AND DEVELOPMENT	\$1,233,831,
		70,00.	720,020		+ =,=00,001,
"2000807347"		\$10,000	\$29,810	RESEARCH AND DEVELOPMENT	\$1,233,831,

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
PAYMENTS TO AGRICULTURAL EXPERIMENT STATIONS UNDER THE HATCH			
ACT	10.203		UNIVERSITY OF GUAM
AYMENTS TO AGRICULTURAL EXPERIMENT STATIONS UNDER THE HATCH ACT	10.203		
AYMENTS TO AGRICOLTOKAL DAY ENIMENT STATIONS ONDER THE HATCH ACT	10.205		
NIMAL HEALTH AND DISEASE RESEARCH	10.207		
IIGHER EDUCATION GRADUATE FELLOWSHIPS GRANT PROGRAM	10.210		
SMALL BUSINESS INNOVATION RESEARCH	10.212		CANDIDUS, INC.
			GEORGIA SOUTHERN UNIVERSITY
			RESEARCH AND SERVICE
SMALL BUSINESS INNOVATION RESEARCH	10.212		FOUNDATION, INC.
SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION	10.215		TEXAS A&M UNIVERSITY
SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION	10.215		AUBURN UNIVERSITY
SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION	10.215		UNIVERSITY OF GUAM
SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION	10.215		UNIVERSITY OF FLORIDA GEORGIA SOUTHERN UNIVERSITY
			RESEARCH AND SERVICE
SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION	10.215		FOUNDATION, INC.
SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION	10.215		CLEMSON UNIVERSITY
USTAINABLE AGRICULTURE RESEARCH AND EDUCATION	10.215		
			UNIVERSITY OF MARYLAND
1890 INSTITUTION CAPACITY BUILDING GRANTS	10.216		EASTERN SHORE
890 INSTITUTION CAPACITY BUILDING GRANTS	10.216		
HIGHER EDUCATION - INSTITUTION CHALLENGE GRANTS PROGRAM	10.217		UNIVERSITY OF ARKANSAS
			TEXAS A&M AGRILIFE EXTENSION
BIOTECHNOLOGY RISK ASSESSMENT RESEARCH	10.219		SERVICE
BIOTECHNOLOGY RISK ASSESSMENT RESEARCH	10.219		UNIVERSITY OF MINNESOTA
HOTECHNOLOGY RISK ASSESSMENT RESEARCH	10.219		
COVID - 19 - AGRICULTURAL AND RURAL ECONOMIC RESEARCH, COOPERATIVE	40.250	COV (ID. 40	
GREEMENTS AND COLLABORATIONS	10.250	COVID - 19	
GRICULTURAL AND RURAL ECONOMIC RESEARCH, COOPERATIVE AGREEMENTS IND COLLABORATIONS	10.250		
CONSUMER DATA AND NUTRITION RESEARCH	10.253		
COVID - 19 - CONSUMER DATA AND NUTRITION RESEARCH	10.253	COVID - 19	
CONSUMER DATA AND NUTRITION RESEARCH	10.253	30 1.12	TUFTS UNIVERSITY
ONSUMER DATA AND NUTRITION RESEARCH	10.253		
GRICULTURAL MARKET AND ECONOMIC RESEARCH	10.290		
GRICULTURAL MARKET AND ECONOMIC RESEARCH	10.290		
INTEGRATED PROGRAMS	10.303		CLEMSON UNIVERSITY
NTEGRATED PROGRAMS	10.303		
HOMELAND SECURITY AGRICULTURAL	10.304		UNIVERSITY OF FLORIDA
IOMELAND SECURITY AGRICULTURAL	10.304		
ORGANIC AGRICULTURE RESEARCH AND EXTENSION INITIATIVE	10.307		CLEMSON UNIVERSITY
ORGANIC AGRICULTURE RESEARCH AND EXTENSION INITIATIVE	10.307		UNIVERSITY OF FLORIDA
ODC ANIC ACRICILITURE RESEARCH AND EXTENSION INITIATIVE	10.307		MACHINICTON STATE LINUVERSITY
ORGANIC AGRICULTURE RESEARCH AND EXTENSION INITIATIVE DRGANIC AGRICULTURE RESEARCH AND EXTENSION INITIATIVE	10.307		WASHINGTON STATE UNIVERSITY
SPECIALTY CROP RESEARCH INITIATIVE	10.309		CORNELL UNIVERSITY
SPECIALTY CROP RESEARCH INITIATIVE	10.309		UNIVERSITY OF FLORIDA
SPECIALTY CROP RESEARCH INITIATIVE	10.309		UNIVERSITY OF FLORIDA
SPECIALTY CROP RESEARCH INITIATIVE	10.309		MICHIGAN STATE UNIVERSITY
SPECIALTY CROP RESEARCH INITIATIVE	10.309		MICHIGAN STATE UNIVERSITY
SPECIALTY CROP RESEARCH INITIATIVE	10.309		CLEMSON UNIVERSITY
SPECIALTY CROP RESEARCH INITIATIVE	10.309		TENNESSEE STATE UNIVERSITY
SPECIALTY CROP RESEARCH INITIATIVE	10.309		MICHIGAN STATE UNIVERSITY
SPECIALTY CROP RESEARCH INITIATIVE	10.309		WASHINGTON STATE UNIVERSITY
			NORTH CAROLINA STATE
	10.309		UNIVERSITY
SPECIALTY CROP RESEARCH INITIATIVE			
	40.200		NORTH CAROLINA STATE
SPECIALTY CROP RESEARCH INITIATIVE SPECIALTY CROP RESEARCH INITIATIVE	10.309		NORTH CAROLINA STATE UNIVERSITY NORTH CAROLINA STATE

Identifying Number Assigned By Funder Pass-Through	Total Amount	Endoral	Federal Program	Cluster	Cluston
Pass-Through Entity	Provided to Sub-Recipients	Federal Expenditures	Program Total	Cluster Name	Cluster Total
"RUGUA0001171801"		\$26	\$4,237,712	RESEARCH AND DEVELOPMENT	\$1,233,831,
		¢4.227.000	Ć4 227 742	DECEARCH AND DEVELOPMENT	¢4 222 024
		\$4,237,686	\$4,237,712 \$3,140,728	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831
		\$3,140,728 \$72,270	\$3,140,728	RESEARCH AND DEVELOPMENT	\$1,233,831 \$1,233,831
		\$215,052	\$215,052	RESEARCH AND DEVELOPMENT	\$1,233,831
"HAIDEKKER"		-\$65	\$14,549	RESEARCH AND DEVELOPMENT	\$1,233,831
"63828383-1"		\$14,614	\$14,549	RESEARCH AND DEVELOPMENT	\$1,233,831
"M1803790"		\$556	\$5,134,276	RESEARCH AND DEVELOPMENT	\$1,233,831
'20ACES378694UGRF"		\$873	\$5,134,276	RESEARCH AND DEVELOPMENT	\$1,233,831
"RCUOG-2021-01" "SUB00002347"		\$2,469 \$4,597	\$5,134,276 \$5,134,276	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831 \$1,233,831
"63828383-2"		\$21,457	\$5,134,276	RESEARCH AND DEVELOPMENT	\$1,233,831
"21552200000000"	4	\$23,849	\$5,134,276	RESEARCH AND DEVELOPMENT	\$1,233,831
	\$3,514,696	\$5,080,475	\$5,134,276	RESEARCH AND DEVELOPMENT	\$1,233,831
"NIFA5208140UOG"		\$29,296	\$274,769	RESEARCH AND DEVELOPMENT	\$1,233,831
	\$104,866	\$245,473	\$274,769	RESEARCH AND DEVELOPMENT	\$1,233,831
"UAAES9144403"		\$46,147	\$46,147	RESEARCH AND DEVELOPMENT	\$1,233,831
"M1800644"		\$101	\$87,048	RESEARCH AND DEVELOPMENT	\$1,233,831
"H007771001"		\$24,222	\$87,048	RESEARCH AND DEVELOPMENT	\$1,233,831
	\$6,980	\$62,725	\$87,048	RESEARCH AND DEVELOPMENT	\$1,233,831
		\$10,362	\$31,199	RESEARCH AND DEVELOPMENT	\$1,233,831
		\$20,837	\$31,199	RESEARCH AND DEVELOPMENT	\$1,233,831
		\$3,605	\$121,844	N/A	
		\$11,315	\$121,844	RESEARCH AND DEVELOPMENT	\$1,233,831
"CON014827"		\$12,546	\$121,844	RESEARCH AND DEVELOPMENT	\$1,233,831
		\$94,378	\$121,844	RESEARCH AND DEVELOPMENT	\$1,233,831
		\$29,316	\$75,063	RESEARCH AND DEVELOPMENT	\$1,233,831
"4004040000000"		\$45,747	\$75,063	N/A	44 000 004
"18812100000000"	¢12C 2C0	\$24,526	\$515,261	RESEARCH AND DEVELOPMENT	\$1,233,831
"UFDSP00011545"	\$126,369	\$490,735 <i>\$74,096</i>	\$515,261 \$210,288	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831 \$1,233,831
0FD3F00011343		\$136,192	\$210,288	RESEARCH AND DEVELOPMENT	\$1,233,831
"2051-207-2012799"		\$49,458	\$893,130	RESEARCH AND DEVELOPMENT	\$1,233,831
"UFDSP00012045"		\$75,092	\$893,130	RESEARCH AND DEVELOPMENT	\$1,233,831
"126216G004091"		\$239,074	\$893,130	RESEARCH AND DEVELOPMENT	\$1,233,831
120210G004091	\$421.687	\$529,506	\$893,130	RESEARCH AND DEVELOPMENT	\$1,233,831
"7959810783"	Ş421,007	-\$19,913	\$2,408,153	RESEARCH AND DEVELOPMENT	\$1,233,831
"UFDSP00011194"		-\$4,464	\$2,408,153	RESEARCH AND DEVELOPMENT	\$1,233,831
"SUB00002390"		\$11,630	\$2,408,153	RESEARCH AND DEVELOPMENT	\$1,233,831
"RC105573UGARF"		\$14,012	\$2,408,153	RESEARCH AND DEVELOPMENT	\$1,233,831
"RC111377F"		\$17,000	\$2,408,153	RESEARCH AND DEVELOPMENT	\$1,233,831
"22342100000000"		\$18,562	\$2,408,153	RESEARCH AND DEVELOPMENT	\$1,233,831
"P0142880" "RC107752B"		\$18,669 \$26,735	\$2,408,153 \$2,408,153	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831 \$1,233,831
"133336-G003924"		\$33,340	\$2,408,153	RESEARCH AND DEVELOPMENT	\$1,233,831
"2016022803"		\$36,718	\$2,408,153	RESEARCH AND DEVELOPMENT	\$1,233,831,
"2017039805"		\$37,801	\$2,408,153	RESEARCH AND DEVELOPMENT	\$1,233,831
"2020-0042-10"		\$59,208	\$2,408,153	RESEARCH AND DEVELOPMENT	\$1,233,831
		, ,	. , ,		

Federal Awarding Agency/Program Title	Federal CFDA Number	Additional Award Identification (Optional)	Name of Funder Pass-Through Entity
• • · · •		, ,	,
SPECIALTY CROP RESEARCH INITIATIVE	10.309		NEW MEXICO STATE UNIVERSITY
SPECIALTY CROP RESEARCH INITIATIVE	10.309		UNIVERSITY OF FLORIDA
SPECIALTY CROP RESEARCH INITIATIVE	10.309		CLEMSON UNIVERSITY
SPECIALTY CROP RESEARCH INITIATIVE	10.309		TEXAS A&M UNIVERSITY
SPECIALTY CROP RESEARCH INITIATIVE	10.309		WASHINGTON STATE UNIVERSITY
SPECIALTY CROP RESEARCH INITIATIVE	10.309		WASHINGTON STATE UNIVERSITY
SPECIALTY CROP RESEARCH INITIATIVE	10.309		NORTH CAROLINA STATE UNIVERSITY
CIALTY CROP RESEARCH INITIATIVE	10.309		UNIVERSITY
CIALLY CROP RESEARCH INITIATIVE	10.509		
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		PENNSYLVANIA STATE UNIVERSITY
			UNIVERSITY OF WISCONSIN -
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		MADISON
			KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		FOUNDATION
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		LOUISIANA STATE UNIVERSITY
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		UNIVERSITY OF TENNESSEE
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		UNIVERSITY OF FLORIDA
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		UNIVERSITY OF CALIFORNIA
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		CHAPMAN UNIVERSITY
			KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		FOUNDATION
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		UNIVERSITY OF FLORIDA
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		UTAH STATE UNIVERSITY
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		UNIVERSITY OF CALIFORNIA
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		UNIVERSITY OF ILLINOIS
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		UNIVERSITY OF CONNECTICUT
,			NORTH CAROLINA STATE
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		UNIVERSITY
			NORTH CAROLINA STATE
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		UNIVERSITY
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		UNIVERSITY OF FLORIDA
AGNICOLITORE AND TOOD RESEARCH INTITATIVE (ALTRI)	10.510		TEXAS A&M AGRILIFE EXTENSION
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		SERVICE
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		UNIVERSITY OF TENNESSEE
AGRICULTURE AIND FOOD RESEARCH INITIATIVE (AFRI)	10.310		UNIVERSITY OF TENNESSEE
			VIRGINIA POLYTECHNIC INSTITUTE
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		AND STATE UNIVERSITY
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		UNIVERSITY OF MARYLAND
			U.S. ENDOWMENT FOR FORESTRY
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		AND COMMUNITIES, INC.
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		MICHIGAN STATE UNIVERSITY
GRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		OHIO STATE UNIVERSITY
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		UNIVERSITY OF FLORIDA
			NORTH CAROLINA STATE
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		UNIVERSITY
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		UNIVERSITY OF FLORIDA
GRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310		
BIOMASS RESEARCH AND DEVELOPMENT INITIATIVE COMPETITIVE			
GRANTS PROGRAM (BRDI)	10.312		OHIO STATE UNIVERSITY
SUN GRANT PROGRAM	10.320		UNIVERSITY OF TENNESSEE
CAPACITY BUILDING FOR NON-LAND GRANT COLLEGES OF AGRICULTURE	13.320		STATE DI LENNESSEE
	10.326		MISSOURI STATE UNIVERSITY
(NLGCA)	10.320		IVII STOURT STATE UNIVERSITY
NATIONAL FOOD SAFETY TRAINING, EDUCATION, EXTENSION, OUTREACH,			
AND TECHNICAL ASSISTANCE COMPETITIVE GRANTS PROGRAM	10.328		ALABAMA A&M UNIVERSITY
AND TECHNICAL ASSISTANCE CONFETTIVE GRANTS PROGRAM	10.320		ALADAMA AQM UNIVERSITI

Identifying Number Assigned By Funder	Total Amount		Federal		
Pass-Through	Provided to	Federal	Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
"O01893"		\$74,045	\$2,408,153	RESEARCH AND DEVELOPMENT	\$1,233,831,
"SUB00002014"		\$76,501	\$2,408,153	RESEARCH AND DEVELOPMENT	\$1,233,831,
"21702100000000"		\$82,515	\$2,408,153	RESEARCH AND DEVELOPMENT	\$1,233,831,
"M1900020"		\$121,046	\$2,408,153	RESEARCH AND DEVELOPMENT	\$1,233,831,
"125970G004092"		\$149,801	\$2,408,153	RESEARCH AND DEVELOPMENT	\$1,233,831,
"133321G004107"		\$176,699	\$2,408,153	RESEARCH AND DEVELOPMENT	\$1,233,831,
"2019-1455-02"		\$560,782	\$2,408,153	RESEARCH AND DEVELOPMENT	\$1,233,831,
2013 1433 02	\$450,717	\$917,466	\$2,408,153	RESEARCH AND DEVELOPMENT	\$1,233,831
5400 UC UCDA 2470"		ć2 24 <i>4</i>	Ć7 720 <i>46</i> 5	DECEARCH AND DEVELOPMENT	ć1 222 021
5198-UG-USDA-3179"		-\$2,214	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
"1225"		\$284	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
"2014-67001-2185"		\$385	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
"PO-0000037155"		\$848	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
"9500082983"		\$928	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
"UFDSP00012187"		\$3,579	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
"S001299"		\$6,092	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831
"500614SUB01"		\$11,100	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831
"20206701331916"		\$12,898	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831
"UFDSP00011707"		\$19,641	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831
"200984420"		\$24,728	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831
"A170397S004"		\$26,774	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831
"092155-17048"		\$27,201	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831
"409814"		\$28,572	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831
"CON009738"		\$34,033	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831
"2019-1507-04"		\$42,805	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831
"2018-67013-27452"		\$44,350	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831
!! \ 44002500!!		¢46.063	Ć7 720 <i>46</i> 5	DECEARCH AND DEVELOPMENT	ć4 222 024
"M1902599" "9500073193"		\$46,862 \$50,871	\$7,728,465 \$7,728,465	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831, \$1,233,831,
3300073133		730,071	<i>\$1,120,403</i>	NESE/INCHT/IND BEVEEST MENT	<i>\$1,233,631</i>
"42351519105"		\$53,134	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831
"54843Z5001201"		\$65,962	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831
"E18-16"		\$66,416	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831
"RC104967UGA"		\$77,859	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831
		\$81,984	\$7,728,465	N/A	
"60045862"		\$87,218	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831
"UFDSP00011796"		\$150,310	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831
"2018053002"		\$159,649	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831
"UFDSP00011873"		\$392,939	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831
	\$1,195,253	\$6,213,257	\$7,728,465	RESEARCH AND DEVELOPMENT	\$1,233,831
"60038218"		\$58	\$58	RESEARCH AND DEVELOPMENT	\$1,233,831
"9500070415"		-\$19	-\$19	RESEARCH AND DEVELOPMENT	\$1,233,831
"16042-001"		\$6,527	\$6,527	N/A	
		7-7		, .	
)17-70020-27253-FVSU"		\$19,725	\$45,539	N/A	

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
NATIONAL FOOD SAFETY TRAINING, EDUCATION, EXTENSION, OUTREACH, AND	10.220		
TECHNICAL ASSISTANCE COMPETITIVE GRANTS PROGRAM CROP PROTECTION AND PEST MANAGEMENT COMPETITIVE GRANTS	10.328		NORTH CAROLINA STATE
PROGRAM	10.329		UNIVERSITY
CROP PROTECTION AND PEST MANAGEMENT COMPETITIVE GRANTS	10.323		NORTH CAROLINA STATE
PROGRAM	10.329		UNIVERSITY
CROP PROTECTION AND PEST MANAGEMENT COMPETITIVE GRANTS			
PROGRAM	10.329		TEXAS A&M UNIVERSITY
CROP PROTECTION AND PEST MANAGEMENT COMPETITIVE GRANTS			NORTH CAROLINA STATE
PROGRAM	10.329		UNIVERSITY
CROP PROTECTION AND PEST MANAGEMENT COMPETITIVE GRANTS			NORTH CAROLINA STATE
PROGRAM	10.329		UNIVERSITY
CROP PROTECTION AND PEST MANAGEMENT COMPETITIVE GRANTS	10 220		NORTH CAROLINA STATE
PROGRAM CROP PROTECTION AND PEST MANAGEMENT COMPETITIVE GRANTS	10.329		UNIVERSITY RUTGERS, THE STATE UNIVERSITY
PROGRAM	10.329		OF NEW JERSEY
CROP PROTECTION AND PEST MANAGEMENT COMPETITIVE GRANTS	10.329		NORTH CAROLINA STATE
PROGRAM	10.329		UNIVERSITY
CROP PROTECTION AND PEST MANAGEMENT COMPETITIVE GRANTS			2.000
PROGRAM	10.329		UNIVERSITY OF FLORIDA
CROP PROTECTION AND PEST MANAGEMENT COMPETITIVE GRANTS			
PROGRAM	10.329		AUBURN UNIVERSITY
CROP PROTECTION AND PEST MANAGEMENT COMPETITIVE GRANTS			
PROGRAM	10.329		TEXAS A&M UNIVERSITY
CROP PROTECTION AND PEST MANAGEMENT COMPETITIVE GRANTS			NORTH CAROLINA STATE
PROGRAM	10.329		UNIVERSITY
CROD DROTECTION AND DEST MANAGEMENT COMMETTINE CRANTS DROCDAM	10.220		
CROP PROTECTION AND PEST MANAGEMENT COMPETITIVE GRANTS PROGRAM ALFALFA AND FORAGE RESEARCH PROGRAM	10.329 10.330		UNIVERSITY OF TENNESSEE
ALI ALI A AND I ONAGE RESEARCH PROGRAM	10.550		UNIVERSITY OF WISCONSIN -
ALFALFA AND FORAGE RESEARCH PROGRAM	10.330		MADISON
ALFALFA AND FORAGE RESEARCH PROGRAM	10.330		
ENHANCING AGRICULTURAL OPPORTUNITIES FOR MILITARY VETERANS			
COMPETITIVE GRANTS PROGRAM	10.334		STAG VETS, INC.
ENHANCING AGRICULTURAL OPPORTUNITIES FOR MILITARY VETERANS			
COMPETITIVE GRANTS PROGRAM	10.334		
VETERINARY SERVICES GRANT PROGRAM	10.336		
RURAL BUSINESS DEVELOPMENT GRANT	10.351		
OUTREACH AND ASSISTANCE FOR SOCIALLY DISADVANTAGED AND VETERAN	40.442		
FARMERS AND RANCHERS	10.443		
RURAL COMMUNITY DEVELOPMENT INITIATIVE COOPERATIVE AGREEMENTS WITH STATES FOR INTRASTATE MEAT AND POULTRY	10.446		
INSPECTION	10.475		
COOPERATIVE EXTENSION SERVICE	10.500		KANSAS STATE UNIVERSITY
COOPERATIVE EXTENSION SERVICE	10.500		UNIVERSITY OF ARKANSAS
COOPERATIVE EXTENSION SERVICE	10.500		UNIVERSITY OF MISSOURI
COOPERATIVE EXTENSION SERVICE	10.500		COLORADO STATE UNIVERSITY
			VIRGINIA POLYTECHNIC INSTITUTE
COOPERATIVE EXTENSION SERVICE	10.500		AND STATE UNIVERSITY
COOPERATIVE EXTENSION SERVICE	10.500		AUBURN UNIVERSITY
COOPERATIVE EXTENSION SERVICE	10.500		AUBURN UNIVERSITY
COOPERATIVE EXTENSION SERVICE	10.500		
COOPERATIVE EXTENSION SERVICE	10.500		
SMITH-LEVER FUNDING (VARIOUS PROGRAMS) EXPANDED FOOD AND NUTRITION EDUCATION PROGRAM	10.511 10.514		
EXPANDED FOOD AND NUTRITION EDUCATION PROGRAM EXPANDED FOOD AND NUTRITION EDUCATION PROGRAM	10.514		
2	10.514		
RENEWABLE RESOURCES EXTENSION ACT AND NATIONAL FOCUS FUND PROJECTS	10.515		
- Indicate a second sec			
RENEWABLE RESOURCES EXTENSION ACT AND NATIONAL FOCUS FUND PROJECTS	10.515		
FOOD AND AGRICULTURE SERVICE LEARNING PROGRAM	10.522		

Identifying Number Assigned By Funder Pass-Through	Total Amount Provided to	Federal	Federal Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
	\$10,843	\$25,814	\$45,539	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2018320001"		-\$6,849	\$649,183	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2018320005"		\$227	\$649,183	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"06S170649"		\$2,595	\$649,183	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2018320020"		\$2,599	\$649,183	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2018320016"		\$4,088	\$649,183	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2018-32000-12"		\$4,865	\$649,183	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"763"		\$9,280	\$649,183	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2018-3200-11"		\$10,000	\$649,183	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SUB00001810"		\$11,908	\$649,183	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"20-EPP-205211-UGRF"		\$22,042	\$649,183	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"M1900309"		\$25,154	\$649,183	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2018320007"		\$53,013	\$649,183	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$85,937	\$510,261	\$649,183	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"9500085481"		\$15,443	\$133,877	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"851K642"		\$30,797	\$133,877	RESEARCH AND DEVELOPMENT	\$1,233,831,971
0311042	\$46,491	\$87,637	\$133,877	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	ψ 10) 13 <u>1</u>	<i>40.100.</i>	ψ 2 55)077	112527 11107 7 1113 52 72 25 7 1112 117	ψ <u>1</u> ,200,001,371
"NIFA SUB 2"		\$3,000	\$119,030	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$58,482	\$116,030	\$119,030	N/A	\$0
		\$121,359	\$121,359	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$242,704	\$242,704	N/A	\$0
		\$33,768	\$33,768	N/A	\$0
		\$49,477	\$49,477	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		¢2 407 100	¢2 407 100	NI/A	ćo
"A000340S074"		\$3,497,100 <i>\$273</i>	\$3,497,100 \$3,100,333	N/A RESEARCH AND DEVELOPMENT	\$0 <i>\$1,233,831,971</i>
"3101112"		\$2,853	\$3,100,333	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"C00067296-2"		\$7,298	\$3,100,333	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"G3833701"		\$13,973	\$3,100,333	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		, 2,72	, , , , , , , , , , , , , , , , , , , ,		, ,, ,.
"32072619105"		\$14,667	\$3,100,333	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"17HDFS205198UGRF"		\$89,549	\$3,100,333	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"18-CHS-205205-VSU"		\$175,689	\$3,100,333	N/A	\$0
	\$2,000	\$395,911	\$3,100,333	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$2,400,120	\$3,100,333	N/A	\$0
		\$7,106,734	\$7,106,734	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$126,685	\$2,368,205	N/A	\$0
		\$2,241,520	\$2,368,205	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$9,129	\$140,154	N/A	\$0
		\$131,025	\$140,154	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$32,156	\$32,156	N/A	\$0

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
FARM AND RANCH STRESS ASSISTANCE NETWORK COMPETITIVE GRANTS			•
PROGRAM	10.525		UNIVERSITY OF TENNESSEE
CACFP TRAINING GRANTS	10.536		
SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM (SNAP) EMPLOYMENT AND			
TRAINING (E&T) DATA AND TECHNICAL ASSISTANCE GRANTS	10.537		
COVID - 19 - PANDEMIC EBT FOOD BENEFITS	10.542	COVID - 19	
COVID - 19 - SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM	10.551	COVID - 19	
SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM	10.551		
SCHOOL BREAKFAST PROGRAM	10.553	00) (15. 40	
COVID - 19 - NATIONAL SCHOOL LUNCH PROGRAM	10.555	COVID - 19	
NATIONAL SCHOOL LUNCH PROGRAM	10.555		
SPECIAL MILK PROGRAM FOR CHILDREN	10.556		
WIC SPECIAL SUPPLEMENTAL NUTRITION PROGRAM FOR WOMEN, INFANTS, AND CHILDREN	10.557		
CHILD AND ADULT CARE FOOD PROGRAM	10.557		
TATE ADMINISTRATIVE EXPENSES FOR CHILD NUTRITION	10.558		
STATE ADMINISTRATIVE EXPENSES FOR CHILD NOTRITION STATE ADMINISTRATIVE MATCHING GRANTS FOR THE SUPPLEMENTAL NUTRITION	10.300		
ASSISTANCE PROGRAM	10.561		
COMMODITY SUPPLEMENTAL FOOD PROGRAM	10.565		
JOHN SON ELMENTAL TOOD I NOONAW	10.303		
COVID - 19 - EMERGENCY FOOD ASSISTANCE PROGRAM (ADMINISTRATIVE COSTS)	10.568	COVID - 19	
EMERGENCY FOOD ASSISTANCE PROGRAM (ADMINISTRATIVE COSTS)	10.568	20 1.12	
EMERGENCY FOOD ASSISTANCE PROGRAM (FOOD COMMODITIES)	10.569		STEP UP SAVANNAH
	20.003		3.2. 3. 3
COVID - 19 - EMERGENCY FOOD ASSISTANCE PROGRAM (FOOD COMMODITIES)	10.569	COVID - 19	
MERGENCY FOOD ASSISTANCE PROGRAM (FOOD COMMODITIES)	10.569		
VIC FARMERS' MARKET NUTRITION PROGRAM (FMNP)	10.572		
TEAM NUTRITION GRANTS	10.574		
FARM TO SCHOOL GRANT PROGRAM	10.575		
SENIOR FARMERS MARKET NUTRITION PROGRAM	10.576		
WIC GRANTS TO STATES (WGS)	10.578		
CHILD NUTRITION DISCRETIONARY GRANTS LIMITED AVAILABILITY	10.579		
FRESH FRUIT AND VEGETABLE PROGRAM	10.582		
EMERGING MARKETS PROGRAM	10.603		
COVID - 19 - PANDEMIC EBT ADMINISTRATIVE COSTS	10.649	COVID - 19	
			U.S. ENDOWMENT FOR FORESTR
FORESTRY RESEARCH	10.652		AND COMMUNITIES, INC.
FORESTRY RESEARCH	10.652		
			U.S. ENDOWMENT FOR FORESTR
FORESTRY RESEARCH	10.652		AND COMMUNITIES, INC.
FORESTRY RESEARCH	10.652		CRADLE OF FORESTRY
FORESTRY RESEARCH	10.652		
COOPERATIVE FORESTRY ASSISTANCE	10.664		ATHENS-CLARK COUNTY
COOPERATIVE FORESTRY ASSISTANCE	10.664		LONGLEAF ALLIANCE
COORER ATILLE FORECTON ACCIOTANCE	10.00		NATIONAL FISH AND WILDLIFE
COOPERATIVE FORESTRY ASSISTANCE	10.664		FOUNDATION
COOPERATIVE FORESTRY ASSISTANCE	10.664		LONGLEAF ALLIANCE
COOPERATIVE FORESTRY ASSISTANCE COOPERATIVE FORESTRY ASSISTANCE	10.664		
LOUPERATIVE FORESTRY ASSISTANCE	10.664		
SCHOOLS AND ROADS - GRANTS TO STATES	10.665		
RURAL DEVELOPMENT, FORESTRY, AND COMMUNITIES	10.665		
CONTROL DE LEGISTAT, AND COMMONTES	10.072		U.S. ENDOWNENT FOR FOREST
WOOD LITHIZATION ASSISTANCE	10 674		U.S. ENDOWMENT FOR FORESTR
WOOD UTILIZATION ASSISTANCE	10.674		AND COMMUNITIES, INC.
WOOD UTILIZATION ASSISTANCE	10.674		
JRBAN AND COMMUNITY FORESTRY PROGRAM	10.675		
URBAN AND COMMUNITY FORESTRY PROGRAM	10.675		OHIO STATE UNIVERSITY
FOREST LEGACY PROGRAM	10.676		
OREST STEWARDSHIP PROGRAM	10.678		

Assigned By Funder Pass-Through Entity	Total Amount Provided to Sub-Recipients	Federal Expenditures	Federal Program Total	Cluster Name	Cluster Total
Entity	Sub-Recipients	Expenditures	Total	Name	Total
"9500095925"		\$66,933	\$66,933	RESEARCH AND DEVELOPMENT	\$1,233,831,9
	\$18,750	\$71,771	\$71,771	N/A	
		4			
		\$136,666	\$136,666 \$290,539,859	N/A	
		\$290,539,859 \$1,123,878,439	\$4,010,616,217	N/A SNAP CLUSTER	\$4,124,320,8
		\$2,886,737,778	\$4,010,616,217	SNAP CLUSTER	\$4,124,320,8
	\$208,903,792	\$209,731,733	\$209,731,733	CHILD NUTRITION CLUSTER	\$848,618,9
	\$21,901,418	\$21,907,630	\$638,388,564	CHILD NUTRITION CLUSTER	\$848,618,
	\$578,262,908	\$616,480,934	\$638,388,564	CHILD NUTRITION CLUSTER	\$848,618,
	\$6,909	\$6,909	\$6,909	CHILD NUTRITION CLUSTER	\$848,618,9
	¢42,000,202	Ć127 FC1 704	¢127 FC1 704	N/A	
	\$42,000,293 \$5,741,734	\$137,561,784 \$5,882,711	\$137,561,784 \$5,882,711	N/A N/A	
	\$55,264	\$11,058,593	\$11,058,593	N/A	
	\$11,963,756	\$113,704,650	\$113,704,650	SNAP CLUSTER	\$4,124,320,
	\$347,980	\$1,127,069	\$1,127,069	FOOD DISTRIBUTION CLUSTER	\$63,834,
	\$2,569,139	\$2,782,936	\$6,796,887	FOOD DISTRIBUTION CLUSTER	\$63,834,
	\$3,901,079	\$4,013,951	\$6,796,887	FOOD DISTRIBUTION CLUSTER	\$63,834,
"00010283"		\$13,069	\$55,910,935	FOOD DISTRIBUTION CLUSTER	\$63,834,8
		¢20.404.702	ĆEE 040 02E	FOOD DISTRIBUTION CLUSTED	¢62.024.
		\$20,194,702 \$35,703,164	\$55,910,935 \$55,910,935	FOOD DISTRIBUTION CLUSTER FOOD DISTRIBUTION CLUSTER	\$63,834, \$63,834,
		\$685,495	\$685,495	N/A	Ş03,634,·
		\$137	\$137	N/A	
		\$23,287	\$23,287	N/A	
		\$142,191	\$142,191	N/A	
		\$1,047,491	\$1,047,491	N/A	
	\$491,765	\$491,765	\$491,765	CHILD NUTRITION CLUSTER	\$848,618,9
	\$3,657,141	\$3,657,141	\$3,657,141	N/A	
		\$4,479	\$4,479	N/A	
		\$94,310	\$94,310	N/A	
"E1795"		-\$778	\$863,756	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		\$3,115	\$863,756	RESEARCH AND DEVELOPMENT	\$1,233,831,
"E17-22"		\$19,948	\$863,756	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"056606-02"		\$58,055	\$863,756	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		<i>\$58,055</i> \$783,416	<i>\$863,756</i> \$863,756	RESEARCH AND DEVELOPMENT N/A	\$1,233,831,9
"056606-02" "ITREE ECOSTUDY"				N/A RESEARCH AND DEVELOPMENT	\$1,233,831,9
"056606-02"		\$783,416	\$863,756	N/A	\$1,233,831,9 \$1,233,831,9 \$1,233,831,9
"056606-02" "ITREE ECOSTUDY" "320200000"		\$783,416 \$1,096 \$13,304	\$863,756 <i>\$5,176,872</i> <i>\$5,176,872</i>	N/A RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,9 \$1,233,831,9
"056606-02" "ITREE ECOSTUDY" "320200000" "1903.20.070063"		\$783,416 \$1,096 \$13,304 \$17,065	\$863,756 \$5,176,872 \$5,176,872 \$5,176,872	N/A RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,9 \$1,233,831,9 \$1,233,831,9
"056606-02" "ITREE ECOSTUDY" "320200000"		\$783,416 \$1,096 \$13,304	\$863,756 <i>\$5,176,872</i> <i>\$5,176,872</i>	N/A RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5
"056606-02" "ITREE ECOSTUDY" "320200000" "1903.20.070063"		\$783,416 \$1,096 \$13,304 \$17,065 \$46,319	\$863,756 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872	N/A RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5
"056606-02" "ITREE ECOSTUDY" "320200000" "1903.20.070063"		\$783,416 \$1,096 \$13,304 \$17,065 \$46,319 \$65,409	\$863,756 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872	N/A RESEARCH AND DEVELOPMENT	\$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5
"056606-02" "ITREE ECOSTUDY" "320200000" "1903.20.070063"	\$1,090,338	\$783,416 \$1,096 \$13,304 \$17,065 \$46,319 \$65,409	\$863,756 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872	N/A RESEARCH AND DEVELOPMENT N/A	\$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5
"056606-02" "ITREE ECOSTUDY" "320200000" "1903.20.070063"	\$1,090,338	\$783,416 \$1,096 \$13,304 \$17,065 \$46,319 \$65,409 \$5,033,679	\$863,756 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872	N/A RESEARCH AND DEVELOPMENT N/A FOREST SERVICE SCHOOLS AND	\$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,090,5
"056606-02" "ITREE ECOSTUDY" "320200000" "1903.20.070063"	\$1,090,338	\$783,416 \$1,096 \$13,304 \$17,065 \$46,319 \$65,409 \$5,033,679 \$1,090,338	\$863,756 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$1,090,338	N/A RESEARCH AND DEVELOPMENT N/A FOREST SERVICE SCHOOLS AND ROADS CLUSTER	\$1,233,831, \$1,233,831, \$1,233,831, \$1,233,831, \$1,233,831, \$1,090,
"056606-02" "ITREE ECOSTUDY" "320200000" "1903.20.070063"	\$1,090,338	\$783,416 \$1,096 \$13,304 \$17,065 \$46,319 \$65,409 \$5,033,679 \$1,090,338 \$2,116	\$863,756 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$1,090,338 \$2,116	N/A RESEARCH AND DEVELOPMENT N/A FOREST SERVICE SCHOOLS AND ROADS CLUSTER RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5
"ITREE ECOSTUDY" "320200000" "1903.20.070063" "5520190100"	\$1,090,338	\$783,416 \$1,096 \$13,304 \$17,065 \$46,319 \$65,409 \$5,033,679 \$1,090,338 \$2,116 \$2,116	\$863,756 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$1,090,338 \$2,116 \$160,293 \$160,293	N/A RESEARCH AND DEVELOPMENT N/A FOREST SERVICE SCHOOLS AND ROADS CLUSTER RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5
"056606-02" "ITREE ECOSTUDY" "320200000" "1903.20.070063" "5520190100" "E19-08"	\$1,090,338	\$783,416 \$1,096 \$13,304 \$17,065 \$46,319 \$65,409 \$5,033,679 \$1,090,338 \$2,116	\$863,756 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$1,090,338 \$2,116	N/A RESEARCH AND DEVELOPMENT N/A FOREST SERVICE SCHOOLS AND ROADS CLUSTER RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5
"056606-02" "ITREE ECOSTUDY" "320200000" "1903.20.070063" "5520190100" "E19-08"	\$1,090,338	\$783,416 \$1,096 \$13,304 \$17,065 \$46,319 \$65,409 \$5,033,679 \$1,090,338 \$2,116 -\$2,997 \$163,290 \$18,470	\$863,756 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$1,090,338 \$2,116 \$160,293 \$160,293 \$50,572	N/A RESEARCH AND DEVELOPMENT N/A FOREST SERVICE SCHOOLS AND ROADS CLUSTER RESEARCH AND DEVELOPMENT	\$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5 \$1,233,831,5
"056606-02" "ITREE ECOSTUDY" "320200000" "1903.20.070063" "5520190100" "E19-08"	\$1,090,338	\$783,416 \$1,096 \$13,304 \$17,065 \$46,319 \$65,409 \$5,033,679 \$1,090,338 \$2,116 \$2,116	\$863,756 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$5,176,872 \$1,090,338 \$2,116 \$160,293 \$160,293	N/A RESEARCH AND DEVELOPMENT N/A FOREST SERVICE SCHOOLS AND ROADS CLUSTER RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,9

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
FOREST STEWARDSHIP PROGRAM	10.678		
FOREST HEALTH PROTECTION	10.680		
FOREST HEALTH PROTECTION	10.680		
NATIONAL FISH AND WILDLIFE FOUNDATION NATIONAL FISH AND WILDLIFE FOUNDATION	<i>10.683</i> 10.683		KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE FOUNDATION
NATIONAL FISH AND WILDLIFE FOUNDATION			NATIONAL FISH AND WILDLIFE
INTERNATIONAL FISH AND WILDLIFE FOUNDATION INTERNATIONAL FORESTRY PROGRAMS	10.683 10.684		FOUNDATION
GOOD NEIGHBOR AUTHORITY	10.691		
WATERSHED RESTORATION AND ENHANCEMENT AGREEMENT AUTHORITY	10.693		
STATE & PRIVATE FORESTRY HAZARDOUS FUEL REDUCTION PROGRAM	10.697		
STATE & PRIVATE FORESTRY COOPERATIVE FIRE ASSISTANCE	10.697		COLORADO STATE UNIVERSITY
PARTNERSHIP AGREEMENTS	10.699		THE NATURE CONSERVANCY
PARTNERSHIP AGREEMENTS	10.699		THE MATURE COMCERNANCY
PARTNERSHIP AGREEMENTS	10.699		THE NATURE CONSERVANCY
PARTNERSHIP AGREEMENTS	10.699		LINUVEDCITY OF VENTUCIO
RESEARCH JOINT VENTURE AND COST REIMBURSABLE AGREEMENTS	10.707		UNIVERSITY OF KENTUCKY
RESEARCH JOINT VENTURE AND COST REIMBURSABLE AGREEMENTS	10.707		
COMMUNITY FACILITIES LOANS AND GRANTS	10.766		
COMMUNITY FACILITIES LOANS AND GRANTS NORMAN E. BORLAUG INTERNATIONAL AGRICULTURAL SCIENCE AND TECHNOLOGY	10.766		
FELLOWSHIP	10.777		
DISTANCE LEARNING AND TELEMEDICINE LOANS AND GRANTS	10.855		
RURAL DEVELOPMENT COOPERATIVE AGREEMENT PROGRAM SOIL AND WATER CONSERVATION	10.890 10.902		PURDUE UNIVERSITY LONGLEAF ALLIANCE
SOIL AND WATER CONSERVATION	10.902		BRIER CREEK CONSERVATION DISTRICT
SOIL AND WATER CONSERVATION	10.902		LONGLEAF ALLIANCE
SOIL AND WATER CONSERVATION	10.902		
SOIL AND WATER CONSERVATION	10.902		
SOIL SURVEY	10.903		NORTH CAROLINA STATE UNIVERSITY
SOIL SURVEY	10.903		
ENVIRONMENTAL QUALITY INCENTIVES PROGRAM	10.912		PHEASANTS FOREVER, INC.
ENVIRONMENTAL QUALITY INCENTIVES PROGRAM	10.912		CLEMSON UNIVERSITY
ENVIRONMENTAL QUALITY INCENTIVES PROGRAM	10.912		
ENVIRONMENTAL QUALITY INCENTIVES PROGRAM	10.912		PHEASANTS FOREVER, INC. FLINT RIVER SOIL AND WATER
ENVIRONMENTAL QUALITY INCENTIVES PROGRAM	10.912		CONSERVATION DISTRICT
ENVIRONMENTAL QUALITY INCENTIVES PROGRAM ENVIRONMENTAL QUALITY INCENTIVES PROGRAM	10.912		CONSERVATION DISTRICT
WILDLIFE HABITAT INCENTIVE PROGRAM	10.912		
WATERSHED REHABILITATION PROGRAM	10.914		
			SOUTH CAROLINA DEPARTMENT OF
FERAL SWINE ERADICATION AND CONTROL PILOT PROGRAM	10.934		NATURAL RESOURCES NEWBERRY SOIL AND WATER
FERAL SWINE ERADICATION AND CONTROL PILOT PROGRAM	10.934		CONSERVATION DISTRICT FLINT RIVER SOIL AND WATER
FERAL SWINE ERADICATION AND CONTROL PILOT PROGRAM	10.934		CONSERVATION DISTRICT
SOUTHERN PINE HEALTH RESEARCH COOPERATIVE - US FOR	10.RD	1243ZP18P0036	
IR4 SOR PERFORMANCE PROJECT FOR INSECTICIDES TO CO	10.RD	PO2000755014	UNIVERSITY OF FLORIDA
STEWARDSHIP OF RARE SPECIES ON THE SAVANNAH RIVER	10.RD	18-CS-11083601-002	
			FOUNDATION FOR FOOD AND
WALLACE - HARNESSING ENDOPHYTES TO IMPROVE CROP EF	10.RD	593608	AGRICULTURE RESEARCH
THE IMPACT OF NUTRITION ASSISTANCE PROGRAMS ON FOO	10.RD	320000000000000 RUS PROJECT GA0732-	UNIVERSITY OF KENTUCKY
TELEDERMATOLOGY IN RURAL GEORGIA	10.U01	B17	

Prosided to Federal Program Cluster Entity Sub-Recipients Expenditures Total Name \$408,816 \$491,251 N/A \$216,639 \$495,251 RESEARCH AND DEV \$1,549 \$278,612 \$495,251 RESEARCH AND DEV \$1,549 \$278,612 \$495,251 RESEARCH AND DEV \$26,635 \$169,348 RESEARCH AND DEV \$26,635 \$169,348 N/A \$1903.18.059484" \$130,945 \$169,348 N/A \$1903.18.059484" \$130,945 \$169,348 N/A \$19,863 \$19,863 \$19,863 N/A \$11,419 \$11,419 RESEARCH AND DEV \$11,419 \$11,419 RESEARCH AND DEV \$117,419 \$117,419 RESEARCH AND DEV \$172,742 N/A \$131,03 \$987,737 RESEARCH AND DEV \$131,03 \$1	ELOPMENT \$1,233,831,
\$408,816 \$491,251 N/A \$216,639 \$495,251 RESEARCH AND DEV \$1,549 \$278,612 \$495,251 RESEARCH AND DEV \$278,612 \$495,251 RESEARCH AND DEV \$278,612 \$495,251 RESEARCH AND DEV \$278,635 \$169,348 RESEARCH AND DEV \$26,635 \$169,348 N/A \$1903.18.059484" \$130,945 \$169,348 N/A \$39,370 \$9,370 RESEARCH AND DEV \$19,863 \$19,863 N/A \$11,419 \$-511,419 RESEARCH AND DEV \$172,742 \$172,742 N/A "G-91388-01" \$65,135 \$65,135 RESEARCH AND DEV \$117,781 \$987,737 RESEARCH AND DEV \$117,781 \$987,737 RESEARCH AND DEV \$17,781 \$987,737 RESEARCH AND DEV \$17,781 \$987,737 RESEARCH AND DEV \$117,781 \$33,608 \$987,737 RESEARCH AND DEV \$117,781 \$340,040 \$349,236 RESEARCH AND DEV \$119,11261995082" \$308,396 \$349,236 RESEARCH AND DEV \$117,11261995082" \$308,396 \$349,236 RESE	ELOPMENT \$1,233,831, ELOPMENT \$1,233,831,
\$1,549 \$216,639 \$495,251 N/A \$1,549 \$278,612 \$495,251 RESEARCH AND DEV "0406.18.061358" \$11,768 \$169,348 RESEARCH AND DEV \$26,635 \$169,348 N/A "1903.18.059484" \$130,945 \$169,348 N/A \$9,370 \$9,370 \$9,370 RESEARCH AND DEV \$19,863 \$19,863 \$19,863 N/A \$11,419 \$11,419 RESEARCH AND DEV \$172,742 \$172,742 N/A "G-91388-01" \$565,135 \$65,135 RESEARCH AND DEV "UGA2020A" \$13,103 \$987,737 RESEARCH AND DEV "UGA2020A" \$13,103 \$987,737 RESEARCH AND DEV ""19IV11261995082" \$40,840 \$349,236 RESEARCH AND DEV ""19IV11261995082" \$40,840 \$349,236 RESEARCH AND DEV ""19IV1126195082" \$40,840 \$349,236 RESEARCH AND DEV "*THIS \$15,533 \$74,453,943 GRANTS CLUS \$17,811 \$987,037 RESEARCH AND DEV "*THIS \$15,533 \$74,453,943 GRANTS CLUS \$15,534 \$15,545 \$15,545 \$15,545 \$15,545 \$15,555 \$15,	ELOPMENT \$1,233,831,
\$1,549 \$278,612 \$495,251 RESEARCH AND DEV "0406.18.061358" \$11,768 \$169,348 RESEARCH AND DEV \$26,635 \$169,348 N/A "1903.18.059484" \$130,945 \$169,348 N/A \$9,370 \$9,370 RESEARCH AND DEV \$19,863 \$19,863 N/A \$19,863 \$19,863 N/A \$11,419 \$11,419 RESEARCH AND DEV \$17,742 \$172,742 N/A "G-91388-01" \$65,135 \$65,135 RESEARCH AND DEV "UGA2020A" \$13,103 \$987,737 RESEARCH AND DEV "UGA2020A" \$13,103 \$987,737 RESEARCH AND DEV "UGA2020A" \$315,608 \$987,737 RESEARCH AND DEV "UGAHTHCMARCH2021" \$35,608 \$987,737 RESEARCH AND DEV "191V11261995082" \$40,840 \$349,236 RESEARCH AND DEV "191V11261995082" \$40,840 \$349,236 RESEARCH AND DEV "T91V11261995082" \$50,303,996 \$349,236 RESEARCH AND DEV "T91V11261995082" \$50,000 \$349,236 RESEARCH AND DEV "RESEARCH AND DEV "\$15,533 \$74,453,943 GRANTS CLUS \$74,438,410 \$74,453,943 GRANTS CLUS COMMUNITY FACILITIE \$74,438,410 \$74,453,943 GRANTS CLUS ***COMMUNITY FACILITIE** \$74,438,410 \$74,453,943 GRANTS CLUS "RESEARCH AND DEV "RD-BU-18-01 COOP PURDUE" \$30,204 \$30,204 N/A "32,2019.01.00" \$591,414 N/A "32,2019.01.00" \$591,414 N/A "32,2019.01.00" \$5432,419 RESEARCH AND DEV "RBCWC0001167301" \$14,212 \$432,419 RESEARCH AND DEV "1904.20.067429, 1903.19.063894" \$104,688 \$432,419 N/A \$130,016 \$432,419 RESEARCH AND DEV \$183,716 \$432,419 RESEARCH AND DEV	ELOPMENT \$1,233,831,
"0406.18.061358" \$11,768 \$169,348 RESEARCH AND DEV. \$26,635 \$169,348 N/A "1903.18.059484" \$130,945 \$169,348 N/A "59,370 \$9,370 RESEARCH AND DEV. \$19,863 \$19,863 \$19,863 N/A \$11,149 \$11,419 RESEARCH AND DEV. "6-91388-01" \$56,135 \$65,135 RESEARCH AND DEV. "106A2020A" \$13,103 \$987,737 RESEARCH AND DEV. "107,781 \$987,737 RESEARCH AND DEV. "108A2020A" \$31,781 \$987,737 RESEARCH AND DEV. "109A2020A" \$31,781 \$987,737 RESEARCH AND DEV. "19V11261995082" \$40,840 \$349,236 RESEARCH AND DEV. "19V11261995082" \$30,204 \$30,204 N/A "32,2019.01.00" \$521,34 \$432,419 RESEARCH AND DEV. "19VRDUE" \$30,204 \$30,204 N/A "32,2019.01.00" \$5213 \$432,419 RESEARCH AND DEV. "19VRDUE" \$30,204 \$30,204 N/A "32,2019.01.00" \$514,212 \$432,419 RESEARCH AND DEV. "1904.20.067429, 1903.19.063894" \$104,688 \$432,419 N/A \$130,016 \$432,419 RESEARCH AND DEV. \$183,716 \$432,419 RESEARCH AND DEV.	ELOPMENT \$1,233,831,
\$26,635 \$169,348 N/A "1903.18.059484" \$130,945 \$169,348 N/A \$9,370 \$9,370 RESEARCH AND DEV \$19,863 \$19,863 N/A \$11,419 \$11,419 RESEARCH AND DEV \$172,742 \$172,742 N/A "G-91388-01" \$65,135 \$65,135 RESEARCH AND DEV "UGA2020A" \$13,103 \$987,737 RESEARCH AND DEV "UGA2020A" \$13,103 \$987,737 RESEARCH AND DEV "UGA2020A" \$35,608 \$987,737 RESEARCH AND DEV "191V11261995082" \$40,840 \$349,236 RESEARCH AND DEV "191V11261995082" \$40,840 \$349,236 RESEARCH AND DEV "S15,533 \$74,453,943 RESEARCH AND DEV "COMMUNITY FACILITIE \$74,438,410 \$74,453,943 GRANTS CLUS \$471 \$471 RESEARCH AND DEV \$691,414 \$691,414 N/A "RD-BU-18-01 COOP PURDUE" \$30,204 \$30,204 N/A "32,2019.01.00" \$5213 \$432,419 RESEARCH AND DEV "RBCWC0001167301" \$14,212 \$432,419 RESEARCH AND DEV "1904.20.067429, 1903.19.063894" \$104,688 \$432,419 RESEARCH AND DEV "1903.19.063894" \$130,016 \$432,419 RESEARCH AND DEV	ELOPMENT \$1,233,831,
"1903.18.059484" \$130,945 \$169,348 N/A \$9,370 \$9,370 RESEARCH AND DEV \$19,863 \$19,863 N/A -\$11,419 -\$11,419 RESEARCH AND DEV \$172,742 \$172,742 N/A "G-91388-01" \$65,135 \$65,135 RESEARCH AND DEV "UGA2020A" \$13,103 \$987,737 RESEARCH AND DEV "UGA2020A" \$13,103 \$987,737 RESEARCH AND DEV "UGA4020A" \$35,608 \$987,737 RESEARCH AND DEV "191/11261995082" \$40,840 \$349,236 RESEARCH AND DEV "191/11261995082" \$40,840 \$349,236 RESEARCH AND DEV "\$15,533 \$74,453,943 GRANTS CLUS COMMUNITY FACILITIE \$74,438,410 \$74,453,943 GRANTS CLUS \$471 \$471 RESEARCH AND DEV \$691,414 \$691,414 N/A "RD-BU-18-01 COOP PURDUE" \$30,204 \$30,204 N/A "32.2019.01.00" \$31,203 \$432,419 RESEARCH AND DEV "RBCWC0001167301" \$14,212 \$432,419 RESEARCH AND DEV "1904.20.067429, 1903.19.063894" \$104,688 \$432,419 RESEARCH AND DEV \$130,016 \$432,419 RESEARCH AND DEV	\$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831,
\$9,370 \$9,370 RESEARCH AND DEV \$19,863 \$19,863 N/A -\$11,419 -\$11,419 RESEARCH AND DEV \$172,742 \$172,742 N/A "G-91388-01" \$55,135 \$55,135 RESEARCH AND DEV "UGA2020A" \$13,103 \$987,737 RESEARCH AND DEV "19JV11261995082" \$13,103 \$987,737 RESEARCH AND DEV "19JV11261995082" \$308,396 \$349,236 RESEARCH AND DEV "19JV11261995082" \$308,396 \$349,236 RESEARCH AND DEV "COMMUNITY FACILITIE \$74,438,410 \$74,453,943 GRANTS CLUS COMMUNITY FACILITIE \$74,438,410 \$74,453,943 GRANTS CLUS COMMUNITY FACILITIE \$74,438,410 \$74,453,943 GRANTS CLUS COMMUNITY FACILITIE \$30,204 \$30,204 N/A "32.2019.01.00" \$30,204 \$30,204 N/A "32.2019.01.00" \$51,213 \$432,419 RESEARCH AND DEV "1904.20.067429, 1903.19.063894" \$104,688 \$432,419 RESEARCH AND DEV "1903.19.063894" \$130,016 \$432,419 RESEARCH AND DEV SEARCH AND DEV	\$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831,
\$9,370 \$9,370 RESEARCH AND DEV \$19,863 \$19,863 N/A -\$11,419 -\$11,419 RESEARCH AND DEV \$172,742 \$172,742 N/A "G-91388-01" \$565,135 \$65,135 RESEARCH AND DEV "UGA2020A" \$13,103 \$987,737 RESEARCH AND DEV "191/1261995082" \$13,103 \$987,737 RESEARCH AND DEV "191/1261995082" \$308,396 \$349,236 RESEARCH AND DEV "191/1261995082" \$40,840 \$349,236 RESEARCH AND DEV "191/1261995082" \$308,396 \$349,236 RESEARCH AND DEV "COMMUNITY FACILITIE \$74,438,410 \$74,453,943 GRANTS CLUS COMMUNITY FACILITIE \$74,438,410 \$74,453,943 GRANTS CLUS "COMMUNITY FACILITIE \$74,438,410 \$74,453,943 GRANTS CLUS "COMMUNITY FACILITIE \$75,33 \$76,453,943 GRANTS CLUS "COMMUNITY FACILITIE \$75,438,410 \$76,453,943 GRANTS CLUS "COMMUNITY FACILITIE \$75,438,410 \$76,453,943 GRANTS CLUS "COMMUNITY FACILITIE \$76,453,943 GRANTS CLUS "COMMUNITY FACILITIE \$75,438,410 \$76,453,943 GRANTS CLUS "COMMUNITY FACILITIE \$77,453,943 GRANTS CLUS "COMMUNITY FACILITIE \$77,443,444	\$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831,
\$19,863 \$19,863 \$N/A -\$11,419 -\$11,419 RESEARCH AND DEV \$172,742 \$172,742 N/A "G-91388-01" \$65,135 \$65,135 RESEARCH AND DEV "UGA2020A" \$13,103 \$987,737 RESEARCH AND DEV \$17,781 \$987,737 N/A UGAHTHCMARCH2021" \$35,608 \$987,737 RESEARCH AND DEV \$25,417 \$921,245 \$987,737 RESEARCH AND DEV "19JV11261995082" \$40,840 \$349,236 RESEARCH AND DEV "19JV11261995082" \$40,840 \$349,236 RESEARCH AND DEV "515,533 \$74,453,943 RESEARCH AND DEV COMMUNITY FACILITIE \$74,438,410 \$74,453,943 GRANTS CLUS \$471 \$471 RESEARCH AND DEV \$691,414 \$691,414 N/A "RD-BU-18-01 COOP PURDUE" \$30,204 \$30,204 N/A "32.2019.01.00" \$30,204 \$30,204 N/A "32.2019.01.00" \$14,212 \$432,419 RESEARCH AND DEV "RBCWC0001167301" \$14,212 \$432,419 RESEARCH AND DEV "1904.20.067429, 1903.19.063894" \$104,688 \$432,419 RESEARCH AND DEV \$183,716 \$432,419 RESEARCH AND DEV	\$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831,
\$172,742 \$172,742 N/A "G-91388-01" \$65,135 \$65,135 RESEARCH AND DEV. "UGA2020A" \$13,103 \$987,737 RESEARCH AND DEV. "JGAHTHCMARCH2021" \$35,608 \$987,737 RESEARCH AND DEV. "19JV11261995082" \$921,245 \$987,737 RESEARCH AND DEV. "19JV11261995082" \$40,840 \$349,236 RESEARCH AND DEV. "19JV11261995082" \$308,396 \$349,236 RESEARCH AND DEV. "COMMUNITY FACILITIE \$15,533 \$74,453,943 GRANTS CLUS. COMMUNITY FACILITIE \$74,438,410 \$74,453,943 GRANTS CLUS. COMMUNITY FACILITIE \$7471 \$471 RESEARCH AND DEV. \$691,414 \$691,414 N/A "RD-BU-18-01 COOP PURDUE" \$30,204 \$30,204 N/A "32.2019.01.00" \$330,204 \$30,204 N/A "32.2019.01.00" \$14,212 \$432,419 RESEARCH AND DEV. "RBCWC0001167301" \$14,212 \$432,419 RESEARCH AND DEV. "1904.20.067429, 1903.19.063894" \$104,688 \$432,419 RESEARCH AND DEV. \$133,716 \$432,419 RESEARCH AND DEV.	\$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831 ELOPMENT \$1,233,831,
"G-91388-01" \$65,135 \$65,135 RESEARCH AND DEV. "UGA2020A" \$13,103 \$987,737 RESEARCH AND DEV. \$17,781 \$987,737 RESEARCH AND DEV. \$35,608 \$987,737 RESEARCH AND DEV. \$25,417 \$921,245 \$987,737 RESEARCH AND DEV. "19JV11261995082" \$40,840 \$349,236 RESEARCH AND DEV. \$308,396 \$349,236 RESEARCH AND DEV. COMMUNITY FACILITIE \$15,533 \$74,453,943 GRANTS CLUS. COMMUNITY FACILITIE \$74,438,410 \$74,453,943 GRANTS CLUS. \$471 \$471 RESEARCH AND DEV. \$691,414 \$691,414 N/A "RD-BU-18-01 COOP PURDUE" \$30,204 \$30,204 N/A "32.2019.01.00" \$349,236 RESEARCH AND DEV. "RBCWC0001167301" \$14,212 \$432,419 RESEARCH AND DEV. "1904.20.067429, 1903.19.063894" \$104,688 \$432,419 RESEARCH AND DEV. \$133,716 \$432,419 RESEARCH AND DEV.	ELOPMENT \$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831 ELOPMENT \$1,233,831,
"UGA2020A" \$13,103 \$987,737 RESEARCH AND DEV. \$17,781 \$987,737 N/A UGAHTHCMARCH2021" \$35,608 \$987,737 RESEARCH AND DEV. \$25,417 \$921,245 \$987,737 RESEARCH AND DEV. "19JV11261995082" \$40,840 \$349,236 RESEARCH AND DEV. COMMUNITY FACILITIE \$15,533 \$74,453,943 GRANTS CLUS. COMMUNITY FACILITIE \$74,438,410 \$74,453,943 GRANTS CLUS. \$471 \$471 RESEARCH AND DEV. \$691,414 \$691,414 N/A "RD-BU-18-01 COOP PURDUE" \$30,204 \$30,204 N/A "32.2019.01.00" \$14,212 \$432,419 RESEARCH AND DEV. "RBCWC0001167301" \$14,212 \$432,419 RESEARCH AND DEV. "1904.20.067429, 1903.19.063894" \$104,688 \$432,419 RESEARCH AND DEV. \$130,016 \$432,419 RESEARCH AND DEV. \$130,016 \$432,419 RESEARCH AND DEV. \$183,716 \$432,419 RESEARCH AND DEV.	ELOPMENT \$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831 ELOPMENT \$1,233,831,
\$17,781 \$987,737 N/A UGAHTHCMARCH2021" \$35,608 \$987,737 RESEARCH AND DEV. "19JV11261995082" \$40,840 \$349,236 RESEARCH AND DEV. "5308,396 \$349,236 RESEARCH AND DEV. COMMUNITY FACILITIE \$15,533 \$74,453,943 GRANTS CLUS. COMMUNITY FACILITIE \$74,438,410 \$74,453,943 GRANTS CLUS. COMMUNITY FACILITIE \$7471 \$471 RESEARCH AND DEV. \$691,414 \$691,414 N/A "RD-BU-18-01 COOP PURDUE" \$30,204 \$30,204 N/A "32,2019.01.00" \$30,204 \$30,204 N/A "32,2019.01.00" \$14,212 \$432,419 RESEARCH AND DEV. "RBCWC0001167301" \$14,212 \$432,419 RESEARCH AND DEV. "1904.20.067429, 1903.19.063894" \$104,688 \$432,419 RESEARCH AND DEV. \$130,016 \$432,419 RESEARCH AND DEV. \$183,716 \$432,419 RESEARCH AND DEV.	\$1,233,831, ELOPMENT \$1,233,831 ELOPMENT \$1,233,831,
### STATEST \$35,608 \$987,737 RESEARCH AND DEV. #19JV11261995082" \$25,417 \$921,245 \$987,737 RESEARCH AND DEV. #19JV11261995082" \$40,840 \$349,236 RESEARCH AND DEV. #19JV11261995082" \$308,396 \$349,236 RESEARCH AND DEV. #19JV11261995082" \$308,396 \$349,236 RESEARCH AND DEV. #19JV11261995082" \$15,533 \$74,453,943 GRANTS CLUS. #19JV11261995082" \$74,438,410 \$74,453,943 GRANTS CLUS. #19JV11261995082" \$471 \$471 RESEARCH AND DEV. #19JV11261995082" \$30,204 \$30,204 N/A #19JV11261995082" \$3	ELOPMENT \$1,233,831 ELOPMENT \$1,233,831,
\$25,417 \$921,245 \$987,737 RESEARCH AND DEV "19JV11261995082" \$40,840 \$349,236 RESEARCH AND DEV \$308,396 \$349,236 RESEARCH AND DEV COMMUNITY FACILITIE \$15,533 \$74,453,943 GRANTS CLUS COMMUNITY FACILITIE \$74,438,410 \$74,453,943 GRANTS CLUS COMMUNITY FACILITIE \$74,438,410 \$74,453,943 GRANTS CLUS \$471 \$471 RESEARCH AND DEV \$691,414 \$691,414 N/A "RD-BU-18-01 COOP PURDUE" \$30,204 \$30,204 N/A "32.2019.01.00" -\$213 \$432,419 RESEARCH AND DEV "RBCWC0001167301" \$14,212 \$432,419 RESEARCH AND DEV "1904.20.067429, 1903.19.063894" \$104,688 \$432,419 N/A \$130,016 \$432,419 RESEARCH AND DEV \$183,716 \$432,419 RESEARCH AND DEV	ELOPMENT \$1,233,831 ELOPMENT \$1,233,831,
"19JV11261995082" \$40,840 \$349,236 RESEARCH AND DEV. \$308,396 \$349,236 RESEARCH AND DEV. COMMUNITY FACILITIE \$15,533 \$74,453,943 GRANTS CLUS COMMUNITY FACILITIE \$74,438,410 \$74,453,943 GRANTS CLUS COMMUNITY FACILITIE \$74,438,410 \$74,453,943 GRANTS CLUS \$471 \$471 RESEARCH AND DEV. \$691,414 \$691,414 N/A "RD-BU-18-01 COOP PURDUE" \$30,204 \$30,204 N/A "32.2019.01.00" \$30,204 \$30,204 N/A "32.2019.01.00" \$14,212 \$432,419 RESEARCH AND DEV. "RBCWC0001167301" \$14,212 \$432,419 RESEARCH AND DEV. "1904.20.067429, 1903.19.063894" \$104,688 \$432,419 N/A \$130,016 \$432,419 RESEARCH AND DEV. \$183,716 \$432,419 RESEARCH AND DEV.	ELOPMENT \$1,233,831,
\$308,396 \$349,236 RESEARCH AND DEV COMMUNITY FACILITIES \$15,533 \$74,453,943 GRANTS CLUSTED COMMUNITY FACILITIES \$74,438,410 \$74,453,943 GRANTS CLUSTED \$74,438,410 \$74,453,943 GRANTS CLUSTED \$74,438,410 \$74,453,943 GRANTS CLUSTED \$691,414 \$691,414 N/A	
COMMUNITY FACILITIE \$15,533 \$74,453,943 GRANTS CLUS COMMUNITY FACILITIE \$74,438,410 \$74,453,943 GRANTS CLUS \$74,438,410 \$74,453,943 GRANTS CLUS \$471 \$471 RESEARCH AND DEV \$691,414 \$691,414 N/A "RD-BU-18-01 COOP PURDUE" \$30,204 \$30,204 N/A "32.2019.01.00" \$32,2019.01.00" \$432,419 RESEARCH AND DEV "RBCWC0001167301" \$14,212 \$432,419 RESEARCH AND DEV "1904.20.067429, 1903.19.063894" \$104,688 \$432,419 N/A \$130,016 \$432,419 RESEARCH AND DEV \$183,716 \$432,419 RESEARCH AND DEV	ELOPMENT \$1,233,831
\$15,533 \$74,453,943 GRANTS CLUS COMMUNITY FACILITIE \$74,438,410 \$74,453,943 GRANTS CLUS \$74,438,410 \$74,453,943 GRANTS CLUS \$471 \$471 RESEARCH AND DEV \$691,414 \$691,414 N/A "RD-BU-18-01 COOP PURDUE" \$30,204 \$30,204 N/A "32.2019.01.00" \$32.213 \$432,419 RESEARCH AND DEV "RBCWC0001167301" \$14,212 \$432,419 RESEARCH AND DEV "1904.20.067429, 1903.19.063894" \$104,688 \$432,419 N/A \$130,016 \$432,419 RESEARCH AND DEV \$183,716 \$432,419 RESEARCH AND DEV	
\$74,438,410 \$74,453,943 GRANTS CLUS \$471 \$471 RESEARCH AND DEV \$691,414 \$691,414 N/A "RD-BU-18-01 COOP PURDUE" \$30,204 \$30,204 N/A "32.2019.01.00" -\$213 \$432,419 RESEARCH AND DEV "RBCWC0001167301" \$14,212 \$432,419 RESEARCH AND DEV "1904.20.067429, 1903.19.063894" \$104,688 \$432,419 N/A \$130,016 \$432,419 RESEARCH AND DEV \$183,716 \$432,419 RESEARCH AND DEV	
\$691,414 \$691,414 N/A "RD-BU-18-01 COOP PURDUE" \$30,204 \$30,204 N/A "32.2019.01.00" -\$213 \$432,419 RESEARCH AND DEV. "RBCWC0001167301" \$14,212 \$432,419 RESEARCH AND DEV. "1904.20.067429, 1903.19.063894" \$104,688 \$432,419 N/A \$130,016 \$432,419 RESEARCH AND DEV. \$183,716 \$432,419 N/A	
\$691,414 \$691,414 N/A "RD-BU-18-01 COOP PURDUE" \$30,204 \$30,204 N/A "32.2019.01.00" -\$213 \$432,419 RESEARCH AND DEV. "RBCWC0001167301" \$14,212 \$432,419 RESEARCH AND DEV. "1904.20.067429, 1903.19.063894" \$104,688 \$432,419 N/A \$130,016 \$432,419 RESEARCH AND DEV. \$183,716 \$432,419 N/A	EL ODNAENIT
"RD-BU-18-01 COOP PURDUE" \$30,204 \$30,204 N/A "32.2019.01.00" -\$213 \$432,419 RESEARCH AND DEV. "RBCWC0001167301" \$14,212 \$432,419 RESEARCH AND DEV. "1904.20.067429, 1903.19.063894" \$104,688 \$432,419 N/A \$130,016 \$432,419 RESEARCH AND DEV. \$183,716 \$432,419 N/A	ELOPMENT \$1,233,831
"32.2019.01.00" -\$213 \$432,419 RESEARCH AND DEV. "RBCWC0001167301" \$14,212 \$432,419 RESEARCH AND DEV. "1904.20.067429, 1903.19.063894" \$104,688 \$432,419 N/A \$130,016 \$432,419 RESEARCH AND DEV. \$183,716 \$432,419 N/A	
"RBCWC0001167301" \$14,212 \$432,419 RESEARCH AND DEV. "1904.20.067429, 1903.19.063894" \$104,688 \$432,419 N/A \$130,016 \$432,419 RESEARCH AND DEV. \$183,716 \$432,419 N/A	
"1904.20.067429, 1903.19.063894" \$104,688 \$432,419 N/A \$130,016 \$432,419 RESEARCH AND DEV \$183,716 \$432,419 N/A	ELOPMENT \$1,233,831,
1903.19.063894" \$104,688 \$432,419 N/A \$130,016 \$432,419 RESEARCH AND DEV \$183,716 \$432,419 N/A	ELOPMENT \$1,233,831,
\$130,016 \$432,419 RESEARCH AND DEV \$183,716 \$432,419 N/A	
\$183,716 \$432,419 N/A	ELOPMENT \$1,233,831
"2019-0725-02" \$24.591 \$60.457 RESEARCH AND DEV.	
	ELOPMENT \$1,233,831
\$35,866 \$60,457 RESEARCH AND DEV	
"WLFW 2018-08" \$356 \$540,704 RESEARCH AND DEV.	
"19802072022261" \$12,932 \$540,704 RESEARCH AND DEVI	
\$17,695 \$66,825 \$540,704 RESEARCH AND DEV	
"WLFW 2018-10" \$79,115 \$540,704 RESEARCH AND DEV.	: ' '
"RFRWCRF328190CV" \$88,297 \$540,704 RESEARCH AND DEV.	ELOPMENT \$1,233,831,
\$293,179 \$540,704 N/A	
\$28,982 \$28,982 RESEARCH AND DEV	ELOPMENT \$1,233,831
\$3,611,502 \$3,611,502 N/A	1,7 = 7,5
"P24011200220" \$4,646 \$70,530 RESEARCH AND DEV.	CLODA (CA 222 024
"NSWCDFY202001" \$26,240 \$70,530 RESEARCH AND DEV.	ELUPIVIEN ST 233 X31
"RFRWC0001209701" \$39,644 \$70,530 RESEARCH AND DEV	ELOPMENT \$1,233,831,
-\$1,273 \$106,986 RESEARCH AND DEV	\$1,233,831, ELOPMENT \$1,233,831,
"PO2000755014" \$3,580 \$106,986 RESEARCH AND DEV. \$12,867 \$106,986 RESEARCH AND DEV.	\$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831
F02C00	\$1,233,831 ELOPMENT \$1,233,831 ELOPMENT \$1,233,831 ELOPMENT \$1,233,831
"593608" \$16,489 \$106,986 RESEARCH AND DEV	\$1,233,831 ELOPMENT \$1,233,831 ELOPMENT \$1,233,831 ELOPMENT \$1,233,831 ELOPMENT \$1,233,831
"320000218519244" \$75,323 \$106,986 RESEARCH AND DEV	\$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831,
\$128,367 \$128,367 N/A	\$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831, ELOPMENT \$1,233,831,

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title TOTAL DEPARTMENT OF AGRICULTURE	Number	(Optional)	Entity
TOTAL DEPARTMENT OF AGRICULTURE			
DEPARTMENT OF COMMERCE			
			CONSORTIUM FOR OCEAN
NOAA MISSION-RELATED EDUCATION AWARDS	11.008		LEADERSHIP
OCEAN EXPLORATION	11.011		MOTE MARINE LABORATORY
OCEAN EXPLORATION	11.011		THE CONTREACT COASTAL OCEAN
			THE SOUTHEAST COASTAL OCEAN OBSERVING REGIONAL
INTEGRATED OCEAN OBSERVING SYSTEM (IOOS)	11.012		ASSOCIATION THE SOUTHEAST COASTAL OCEAI OBSERVING REGIONAL
INTEGRATED OCEAN OBSERVING SYSTEM (IOOS)	11.012		ASSOCIATION
Wite divite been we observe of statem (1003)	11.012		THE SOUTHEAST COASTAL OCEAN
			OBSERVING REGIONAL
INTEGRATED OCEAN OBSERVING SYSTEM (IOOS)	11.012		ASSOCIATION
NTEGRATED OCEAN OBSERVING SYSTEM (IOOS)	11.012		
(, , , ,			THE SOUTHEAST COASTAL OCEA
			OBSERVING REGIONAL
INTEGRATED OCEAN OBSERVING SYSTEM (IOOS)	11.012		ASSOCIATION
			THE SOUTHEAST COASTAL OCEA
			OBSERVING REGIONAL
INTEGRATED OCEAN OBSERVING SYSTEM (IOOS)	11.012		ASSOCIATION
			THE SOUTHEAST COASTAL OCEA
			OBSERVING REGIONAL
INTEGRATED OCEAN OBSERVING SYSTEM (IOOS)	11.012		ASSOCIATION
CLUSTER GRANTS	11.020		EMORY UNIVERSITY
CLUSTER GRANTS	11.020		
			THE SOUTHEAST COASTAL OCEA OBSERVING REGIONAL
BIPARTISAN BUDGET ACT OF 2018	11.022		ASSOCIATION
			THE SOUTHEAST COASTAL OCEA
			OBSERVING REGIONAL
BIPARTISAN BUDGET ACT OF 2018	11.022		ASSOCIATION
BIPARTISAN BUDGET ACT OF 2018	11.022		
CONOMIC DEVELOPMENT TECHNICAL ASSISTANCE	11.303		
			GEORGIA SOUTHERN UNIVERSIT
500 VO. 410 D. F. /F. O. O. 45 V. T. T. C. V. V. O. V. 400 (5.1 V. O. C.	44.000		RESEARCH AND SERVICE
ECONOMIC DEVELOPMENT TECHNICAL ASSISTANCE	11.303		FOUNDATION, INC.
CONOMIC DEVELOPMENT TECHNICAL ASSISTANCE	11.303		
CONOMIC ADJUSTMENT ASSISTANCE	11.307		GEORGIA SOUTHERN UNIVERSIT
			RESEARCH AND SERVICE
ECONOMIC ADJUSTMENT ASSISTANCE	11.307		
FADE ADJUSTMENT ASSISTANCE RADE ADJUSTMENT ASSISTANCE FOR FIRMS	11.307		FOUNDATION, INC.
TRADE ADJUSTMENT ASSISTANCE FOR FIRMS	11.313		
NTERJURISDICTIONAL FISHERIES ACT OF 1986	11.313		
SEA GRANT SUPPORT	11.417		JUNIATA COLLEGE
SEA GRANT SUPPORT	11.417		UNIVERSITY OF FLORIDA
3271 010 1147 3077 0117	11.717		GEORGIA SOUTHERN UNIVERSIT
			RESEARCH AND SERVICE
SEA GRANT SUPPORT	11.417		FOUNDATION, INC.
SEA GRANT SUPPORT	11.417		
COASTAL ZONE MANAGEMENT ADMINISTRATION AWARDS	11.419		CITY OF BRUNSWICK
COASTAL ZONE MANAGEMENT ADMINISTRATION AWARDS	11.419		UNIVERSITY OF MICHIGAN
			GEORGIA SOUTHERN UNIVERSIT RESEARCH AND SERVICE
COASTAL ZONE MANAGEMENT ADMINISTRATION AWARDS	11.419		FOUNDATION, INC.
			. 505, 011, 1110.
	11.419		
COASTAL ZONE MANAGEMENT ADMINISTRATION AWARDS COASTAL ZONE MANAGEMENT ESTUARINE RESEARCH RESERVES	11.419 11.420		

Identifying Number Assigned By Funder Pass-Through Entity	Total Amount Provided to Sub-Recipients	Federal Expenditures	Federal Program Total	Cluster Name	Cluster Total
_	\$890,957,111	\$5,804,543,478			
"NA20SEC0080019"		\$8,193	\$8,193	N/A	\$1
"MML 105-320"		<i>\$6,390</i> \$661,302	<i>\$667,692</i> \$667,692	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,973 \$1,233,831,97
		7001,302	Ş007,03 <u>2</u>	RESEARCH AND DEVELOT MENT	71,233,031,37
"IOOS.16(028)GATECH.FZ.GL D.1"		\$2,436	\$283,301	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"IOOS16028UGASNOA"		\$11,313	\$283,301	RESEARCH AND DEVELOPMENT	\$1,233,831,97
10031002800A3NOA		711,313	7203,301	RESEARCH AND DEVELOPMENT	\$1,233,631,37
"IOOS.16(028)UGA/SKIO.P#3		\$17,786	\$283,301	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$19,216	\$283,301	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"NA16NOS0120028"		\$36,809	\$283,301	N/A	\$0
"IOOS16028UGASKIOCE"		\$70,808	\$283,301	RESEARCH AND DEVELOPMENT	\$1,233,831,97.
"IOOS16028UGASKIODS"		\$124,933	\$283,301	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A391823"		\$13,305	\$224,553	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$211,248	\$224,553	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"33772"		\$15,064	\$218,620	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"IOOS19191SKIOCESUPGLIDE					
R1"		\$28,556	\$218,620	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$175,000	\$218,620	N/A	\$
		\$107,367	\$981,927	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"62020202 2"		Ć112 F24	ć001 027	N/A	ć
"63828383-3"	\$310,836	<i>\$112,524</i> \$762,036	<i>\$981,927</i> \$981,927	<i>N/A</i> N/A	\$i \$
	\$310,630	\$109,327	\$243,664	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"63828383-11"		\$134,337	\$243,664	ECONOMIC DEVELOPMENT CLUSTER	\$134,33
	¢127.077	\$4,250	\$187,509	RESEARCH AND DEVELOPMENT N/A	\$1,233,831,97 \$
	\$137,077	\$183,259 \$25,106	\$187,509 \$25,106	N/A	, \$
"SEAGRANT20191"		\$3,900	\$2,004,332	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON009495"		\$55,135	\$2,004,332	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"63828383-4"	\$16,224	\$125,185	\$2,004,332	RESEARCH AND DEVELOPMENT	\$1,233,831,97.
	\$183,005	\$1,820,112	\$2,004,332	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"201117"		\$9,450	\$2,244,593	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"SUBK00011125"		\$82,202	\$2,244,593	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"63828383-5"		\$130,599	\$2,244,593	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$219,207	\$2,022,342	\$2,244,593	N/A	\$
		\$724,383	\$724,383	N/A	\$
		, ,	, ,	·	

	Federal	Additional Award	Name of Funder
	CFDA	Identification	Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
CLIMATE AND ATMOSPHERIC RESEARCH	11.431		FLORIDA STATE UNIVERSITY
CLIMANTE AND ATMOCRUEDIC DECEARCIL	11 121		NORTH CAROLINA STATE
CLIMATE AND ATMOSPHERIC RESEARCH	11.431		UNIVERSITY CORPORATION FOR
CUMATE AND ATMOSPHERIC RESEARCH	11 121		UNIVERSITY CORPORATION FOR
CLIMATE AND ATMOSPHERIC RESEARCH	11.431		ATMOSPHERIC RESEARCH
LIMATE AND ATMOSPHERIC RESEARCH	11.431		
COOPERATIVE FISHERY STATISTICS	11.434		ATLANTIC STATES MARINE
COOPERATIVE FISHERY STATISTICS	11.434		FISHERIES COMMISSION
OUTHEAST AREA MONITORING AND ASSESSMENT PROGRAM	11.435		TISTIENIES COMMINISSION
MARINE MAMMAL DATA PROGRAM	11.439		
MAKINE IVIAIVIIVIAE DATA PROGRAIVI	11.435		SOUTH ATLANTIC FISHERY
REGIONAL FISHERY MANAGEMENT COUNCILS	11.441		MANAGEMENT COUNCIL
REGIONAL FISHERT MANAGEMENT COONCIES	11.441		ATLANTIC STATES MARINE
UNALLIED MANAGEMENT PROJECTS	11.454		FISHERIES COMMISSION
VEATHER AND AIR QUALITY RESEARCH	11.459		TISTIEMES COMMISSION
VEATHER AND AIR QUALITY RESEARCH	11.433		UNIVERSITY CORPORATION FOR
WEATHER AND AIR QUALITY RESEARCH	11.459		ATMOSPHERIC RESEARCH
APPLIED METEOROLOGICAL RESEARCH	11.468		FLORIDA STATE UNIVERSITY
THE FILE WELL COURSE TEST MICH	11.700		TEOMERISTITE ONVERSITY
			SOUTH CAROLINA DEPARTMENT OF
UNALLIED SCIENCE PROGRAM	11.472		NATURAL RESOURCES
JNALLIED SCIENCE PROGRAM	11.472		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
DFFICE FOR COASTAL MANAGEMENT	11.473		
OFFICE FOR COASTAL MANAGEMENT	11.473		
OFFICE FOR COASTAL MANAGEMENT	11.473		CITY OF TYBEE ISLAND
ATLANTIC COASTAL FISHERIES COOPERATIVE MANAGEMENT ACT	11.474		CITY OF TIBLE ISBNIND
SISHERIES DISASTER RELIEF	11.477		
CENTER FOR SPONSORED COASTAL OCEAN RESEARCH COASTAL OCEAN			
PROGRAM	11.478		LEHIGH UNIVERSITY
			UNIVERSITY OF MARYLAND
EDUCATIONAL PARTNERSHIP PROGRAM	11.481		EASTERN SHORE
			POLYTECHNIC UNIVERSITY OF
MEASUREMENT AND ENGINEERING RESEARCH AND STANDARDS	11.609		PUERTO RICO
MEASUREMENT AND ENGINEERING RESEARCH AND STANDARDS	11.609		COLORADO STATE UNIVERSITY
MEASUREMENT AND ENGINEERING RESEARCH AND STANDARDS	11.609		
MANUFACTURING EXTENSION PARTNERSHIP	11.611		NEW YORK UNIVERSITY
MANUFACTURING EXTENSION PARTNERSHIP	11.611		
MANUFACTURING EXTENSION PARTNERSHIP	11.611		
ARRANGEMENTS FOR INTERDISCIPLINARY RESEARCH INFRASTRUCTURE	11.619		COLORADO STATE UNIVERSITY
			NATIONAL INSTITUTE FOR
			INNOVATION IN MANUFACTURING
ARRANGEMENTS FOR INTERDISCIPLINARY RESEARCH INFRASTRUCTURE	11.619		BIOPHARMACEUTICALS
ARRANGEMENTS FOR INTERDISCIPLINARY RESEARCH INFRASTRUCTURE	11.619		UNIVERSITY OF DELAWARE
			NATIONAL INSTITUTE FOR
			NATIONAL INSTITUTE FOR
ADD ANGENTALITY FOR INTERDICACIONALIZATION OF THE PROPERTY OF	44.610		INNOVATION IN MANUFACTURING
ARRANGEMENTS FOR INTERDISCIPLINARY RESEARCH INFRASTRUCTURE	11.619		BIOPHARMACEUTICALS
CIENCE, TECHNOLOGY, BUSINESS AND/OR EDUCATION OUTREACH	11.620		
MINORITY BUSINESS RESOURCE DEVELOPMENT	11.802		
MINORITY BUSINESS RESOURCE DEVELOPMENT	11.802		
MBDA BUSINESS CENTER	11.805		
MBDA BUSINESS CENTER FOTAL DEPARTMENT OF COMMERCE	11.805		
CTAL DLEAR TIVILINE OF CONVINIENCE			
DEPARTMENT OF DEFENSE			
NATIONAL DEFENSE EDUCATION PROGRAM	12.006		UNIVERSITY OF TOLEDO
AQUATIC PLANT CONTROL	12.100		

Identifying Number Assigned By Funder	Total Amount		Federal		
Pass-Through	Provided to	Federal	Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
"R000002728"		\$3,262	\$461,375	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2019128002"		\$9,003	\$461,375	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SUBWAD001873"		\$31,061	\$461,375	RESEARCH AND DEVELOPMENT	\$1,233,831,971
30DWAD001073	\$5,425	\$418,049	\$461,375	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$3,423	\$121,905	\$262,880	N/A	\$1,233,631,97
"20-01012"		\$140,975	\$262,880	N/A	\$0
		\$93,521	\$93,521	N/A	\$
		\$39,710	\$39,710	N/A	\$
A-16-02-GA & SA-17-02-		¢c0.740	600 740	21/2	٠,
GA"		\$60,748	\$60,748	N/A	\$0
"20-901"		\$25,770	\$25,770	N/A	\$0
20 301		\$56,374	\$362,116	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		330,374	\$302,110	RESEARCH AND DEVELOP MENT	\$1,233,631,57
"SUBCON002177"		\$305,742	\$362,116	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"R01856"		\$22,149	\$22,149	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		, , -			, , , , .
"SCDNRFY2021003"		\$6,926	\$679,177	RESEARCH AND DEVELOPMENT	\$1,233,831,97
3CDIVITI 12021003	\$5,264	\$672,251	\$679,177	N/A	\$1,233,831,97
	\$3,204	\$10,000	\$91,027	RESEARCH AND DEVELOPMENT	اد \$1,233,831,97
		\$10,023	\$91,027	N/A	\$
"AWD00011961"		\$71,004	\$91,027	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$619,384	\$619,384	N/A	\$1
	\$614,251	\$652,790	\$652,790	N/A	\$(
"543829-78002"		\$50,519	\$50,519	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"NA11SEC4810002"		\$341,398	\$341,398	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"AGMT DTD 9/26/19"		\$53,040	\$2,830,668	N/A	\$0
"G-99042-03"		\$62,869	\$2,830,668	RESEARCH AND DEVELOPMENT	\$1,233,831,971
0-99042-03	\$84,945	\$2,714,759	\$2,830,668	RESEARCH AND DEVELOPMENT	\$1,233,831,97
A CNAT DTD 2/1/2020"	\$64,945	\$2,714,759	\$4,413,739	N/A	\$1,233,631,97 \$(
'AGMT DTD 3/1/2020"				RESEARCH AND DEVELOPMENT	·
	\$88.509	\$1,007,322 \$3,353,417	\$4,413,739 \$4,413,739	N/A	\$1,233,831,97 \$1
	366,309	33,333,41 7	34,413,733	N/A	اب
"G-00745-13"		\$21,941	\$424,343	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"DOLO DO"		454 700	4404040		44 000 004 074
"PC1.0-26"		\$51,702	\$424,343	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"PC1026"		\$70,799	\$424,343	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"PC2.2-122"		\$279,901	\$424,343	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$118	\$118	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$195,000	\$375,481	\$903,416	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$289,230	\$527,935	\$903,416	N/A	\$1
	\$95,350	\$258,886	\$518,271	N/A	\$(
	\$47,000	\$259,385	\$518,271	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	¢2.204.222	¢20.702.440			
,	\$2,291,323	\$20,703,119			
"CON013337"		<i>\$22,290</i> \$315,960	\$22,290	RESEARCH AND DEVELOPMENT	\$1,233,831,971 \$0

	Federal	Additional Award	Name of Funder
	CFDA	Identification	Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
AYMENTS TO STATES IN LIEU OF REAL ESTATE TAXES	12.112		
TATE MEMORANDUM OF AGREEMENT PROGRAM FOR THE REIMBURSEMEN			
ECHNICAL SERVICES	12.113		LINUVERSITY OF MAICHIC AND
COLLABORATIVE RESEARCH AND DEVELOPMENT	12.114		UNIVERSITY OF MICHIGAN
COLLABORATIVE RESEARCH AND DEVELOPMENT EPARTMENT OF DEFENSE APPROPRIATION ACT OF 2003	<i>12.114</i> 12.116		UNIVERSITY OF MICHIGAN
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.116		UNIVERSITY OF NOTRE DAME
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		CONTINUUM DYNAMICS, INC.
BASIC AND ALL ELED SCIENTIFIC RESEARCH	12.500		CONTINUOUN DINAMICS, INC.
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		CHARLES RIVER ANALYTICS, INC
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		FLORIDA STATE UNIVERSITY
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		TUFTS UNIVERSITY
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		LEIDOS, INC.
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		PHYSICAL SCIENCES, INC.
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		NEC CORPORATION
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		CONTINUUM DYNAMICS, INC.
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		DYNETICS, INC.
			NORTHROP GRUMMAN
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		CORPORATION
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		VANDERBILT UNIVERSITY
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		ENVISIONEERING, INC.
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		UNIVERSITY OF MARYLAND
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		PHYSICAL SCIENCES, INC.
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		PURDUE UNIVERSITY
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		UNIVERSITY OF TENNESSEE
			ADVANCED CONDUCTOR
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		TECHNOLOGIES, LLC
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		SAIC, INC.
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		ZETA ASSOCIATES, INC.
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		CONTINUUM DYNAMICS, INC.
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		CARBICE CORPORATION
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		JOHNS HOPKINS UNIVERSITY
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		CONTINUUM DYNAMICS, INC.
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		BAE SYSTEMS, INC.
BASIC TIND AT THE DISCLETATION OF THE MESTATION	12.300		LUNA INNOVATIONS
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		INCORPORATED
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		UNIVERSITY OF ROCHESTER
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		UNIVERSITY OF VIRGINIA
SIC AND APPLIED SCIENTIFIC RESEARCH	12.300		
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		CFD RESEARCH CORPORATION
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		ENVISIONEERING, INC.
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		R-DEX SYSTEMS, INC.
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		PHYSICAL SCIENCES, INC.
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		LONG WAVE, INC.
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		WHITE RIVER TECHNOLOGIES, IN
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		UNIVERSITY OF MARYLAND
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		LEIDOS, INC.
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		DYNETICS, INC.
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		CRAFT TECH
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		LEIDOS, INC.
DACIC AND ADDITED SCIENTIFIC DESCARCIT	42.200		MAKALOGEAN ENGINEERING
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		MAKAI OCEAN ENGINEERING, IN
			KENNESAW STATE UNIVERSITY
DACIC AND ADDITED COENTIES DECEADOR	12 200		RESEARCH AND SERVICE
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		FOUNDATION
BASIC AND APPLIED SCIENTIFIC RESEARCH BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300 12.300		STRATEGIC ANALYSIS, INC. LEIDOS, INC.

Assigned By Funder	Total Amount		Federal			
Pass-Through Entity	Provided to Sub-Recipients	Federal Expenditures	Program Total	Cluster Name	Cluster Total	
Lineity	\$2,430,694	\$2,430,694	\$2,430,694	N/A	rotur	
		\$471,157	\$471,157	N/A		
"3003179759"		\$6,974	\$36,220	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"SUBK00014056"		\$29,246	\$36,220	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"208107GT"		\$104,660	\$104,660	N/A	ć1 222 021 0	
"AGT DTD MAY 27, 2017"		-\$26,239 -\$16,730	\$128,178,511	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,9 \$1,233,831,9	
AGT DTD MAT 27, 2017		-\$10,73U	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,031,9	
"C1300602"		-\$6,715	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"R02079"		-\$1,233	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"ONR029"		-\$868	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"PO10105875"		-\$9	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"86042-4215-46"		\$29	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"AGR 01/01/2020"		\$103	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"AGT DTD OCT 10, 2017"		\$705	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"DI-SC-15-05 TO 11"		\$1,385	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"7500159934"		\$1,978	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"SUBAWARD UNIV61744"		\$5,840	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"PO 19-0426"		\$8,240	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"43832-Z8995001"		\$8,401	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"SC-8061-7420-021-001"		\$8,747	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"13000648-032"		\$11,242	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
N00464 20 2000 CEORGIA!!		Ć42.455	Ć420 470 E44	DECEARCH AND DEVELOPMENT	¢4 222 024 0	
N00164-20-2008-GEORGIA"		\$13,455	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"N6833518C0151"		\$15,367	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"PO10238931"		\$16,281	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"090051SC-GTARC-01"		\$17,430	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"141428"		\$21,168	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"141207 AGMT. DATED						
7/16/2020"		\$23,740	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"122356"		\$24,997	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"144355" "975057"		\$26,530 \$28,527	\$128,178,511 \$128,178,511	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,9 \$1,233,831,9	
373037		\$20,327	\$120,170,311	RESEARCH AIND DEVELOPINIENT	\$1,233,631,3	
"AGR DTD 12/19/16"		\$30,136	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"417645G/UR FAO						
GR510976"		\$33,246	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"GG12136.159334"		\$34,168	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"GTRC 144137 DTD		\$36,235	\$128,178,511	N/A		
8/11/2020"		\$40,365	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"S20-16"		\$45,421	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"GTARC 144208 AGMT DTD		<i>ϕ 13) 122</i>	ψ120)170)011	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<i>ψ</i> 2)200)002)3	
07242020"		\$45,550	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"87352-4233-46"		\$48,257	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"GTRC01-002"		\$49,992	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"2006 CATECU"		\$54,475	Ć420 470 F44	DECEARCH AND DEVELOPMENT	¢4 222 024 ¢	
"2006-GATECH" "95497-Z8318201"		\$63,637	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"P010230959"		\$66,067	\$128,178,511 \$128,178,511	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,9 \$1,233,831,9	
"DI-SC-18-65"		\$67,867	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"N68335-18-C-0850"		\$72,831	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"RFP-7234-0219-007"		\$74,227	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
#6.15 0046		4	4400 :====		A	
"SUB-2019-002"		<i>\$74,728</i>	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"NO0014 20 1 2C71"		\$82,417	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"N00014-20-1-2671" "SA-GAT-NRL-0135-2019"		\$87,904	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9	

	Federal	Additional Award	Name of Funder
	CFDA	Identification	Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		UNIVERSITY OF WASHINGTON
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		CLEMSON UNIVERSITY
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		UNIVERSITY OF CALIFORNIA, SAN DIEGO
			LUNA INNOVATIONS
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		INCORPORATED
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		SOAR TECHNOLOGY, INC.
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		SOAR TECHNOLOGY, INC.
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		THE BOEING COMPANY
BASIC AND APPLIED SCIENTIFIC RESEARCH BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300 12.300		PRINCETON UNIVERSITY
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		BORGWARNER, INC. UNIVERSITY OF SOUTHERN
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		CALIFORNIA
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		UNIVERSITY OF CONNECTICUT
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		UNIVERSITY OF WASHINGTON
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		VIASAT. INC.
			, ,
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		PHYSICAL OPTICS CORPORATION
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		UNIVERSITY OF PENNSYLVANIA
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		PRECISE SYSTEMS, INC.
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		DYNETICS, INC.
ASIC AND APPLIED SCIENTIFIC RESEARCH	12.300		
SCIENTIFIC RESEARCH - COMBATING WEAPONS OF MASS DESTRUCTION	12.351		EMORY UNIVERSITY
CIENTIFIC RESEARCH - COMBATING WEAPONS OF MASS DESTRUCTION	12.351		
ROTC LANGUAGE AND CULTURE TRAINING GRANTS	12.357		INSTITUTE OF INTERNATIONAL EDUCATION, INC.
			INSTITUTE OF INTERNATIONAL
ROTC LANGUAGE AND CULTURE TRAINING GRANTS	12.357		EDUCATION, INC.
ROTC LANGUAGE AND CULTURE TRAINING GRANTS	12.357		INSTITUTE OF INTERNATIONAL EDUCATION, INC.
ESEARCH ON CHEMICAL AND BIOLOGICAL DEFENSE	12.360		EDUCATION, INC.
ESE WALL ON CHEMICAL AND BIOLOGICAL DELENGE	12.500		
IATIONAL GUARD MILITARY OPERATIONS AND MAINTENANCE (O&M) PROJECTS	12.401		
ATIONAL GUARD CHALLENGE PROGRAM	12.404		
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420		SHEPHERD CENTER
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420		GENEVA FOUNDATION
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420		UNIVERSITY OF OKLAHOMA
			KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420		FOUNDATION
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420		UNIVERSITY OF MISSISSIPPI
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420		ROCKEFELLER UNIVERSITY
			ALBERT EINSTEIN COLLEGE OF
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420		MEDICINE
IILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420		
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420		UNIVERSITY OF ARKANSAS
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420		UNIVERSITY OF ARIZONA NEW YORK R&D CENTER FOR TRANSLATIONAL MEDICINE AND
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420		THERAPEUTICS, INC.
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420		MISSISSIPPI STATE UNIVERSITY
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420		UNIVERSITY OF MINNESOTA
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420		RHODE ISLAND HOSPITAL
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420		DREXEL UNIVERSITY
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420		UNIVERSITY OF MICHIGAN
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420		GENEVA FOUNDATION
IILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420		
BASIC SCIENTIFIC RESEARCH	12.431		CONTINUUM DYNAMICS, INC.
			ADVANCED SYSTEMS &
BASIC SCIENTIFIC RESEARCH	12.431		TECHNOLOGIES, INC.
BASIC SCIENTIFIC RESEARCH	12.431		GIRD SYSTEMS, INC.
BASIC SCIENTIFIC RESEARCH	12.431		RADIANCE TECHNOLOGIES, INC.

Identifying Number Assigned By Funder	Total Amount		Federal		
Pass-Through	Provided to	Federal	Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
"UWSC12098"		\$106,121	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"2190-202-2013781"		\$106,283	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"#108547341"		\$108,762	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"3602-NVY-2S/GTRI"		\$126,579	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"SC-19-025"		\$146,835	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"SC-19-005"		\$147,419	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"1451798"		\$150,922	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"SUB0000364"		\$182,032	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"ARG DTD 11/22/2019"		\$185,153	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"127224382"		\$189,168	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"184733"		\$340,038	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"#UWSC9065"		\$349,770	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"4208464"		\$352,747	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"POC# 10201-GTRI"		\$437,310	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"578186"		\$439,441	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"19-0044-21"		\$738,455	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"DI-SC-19-40/TO 0001"		\$1,626,182	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$14,604,686	\$121,150,720	\$128,178,511	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"A316609"		\$154,226	\$1,128,392	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$323,296	\$974,166	\$1,128,392	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"PGO1801-GT-03-PGO-051-					
P02" "PGO1801-GT-03-PGO-051-		\$84,559	\$424,349	RESEARCH AND DEVELOPMENT	\$1,233,831,97
PO3"		\$148,566	\$424,349	RESEARCH AND DEVELOPMENT	\$1,233,831,97
, 55		ψ1 /0/000	ψ . <u>Σ</u> .,σ .3	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<i>ψ1)233)331</i>
"PGO1801-UNG-23"		\$191,224	\$424,349	N/A	\$
		-\$17,345	-\$17,345	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$47,313,995	\$47,313,995	N/A	
		\$12,585,039	\$12,585,039	N/A	:
"CON007436"		\$181	\$4,329,818	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"S1100002"		\$492	\$4,329,818	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"36697"		\$3,578	\$4,329,818	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"W81XWH1910628"		\$12,379	\$4,329,818	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"W81XWH-15-1-0428"		\$12,695	\$4,329,818	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"W81XW1710290"		\$14,204	\$4,329,818	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"321184"		\$16,191	\$4,329,818	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$16,756	\$4,329,818	N/A	Ç
"SA1711151"		\$17,611	\$4,329,818	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"W81XWH-17-1-0443"		\$17,934	\$4,329,818	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"FP00021637"		\$21,321	\$4,329,818	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"183905.310605.01"		\$23,445	\$4,329,818	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$23,695	\$4,329,818	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"W81XWH2010885"		\$37,055	\$4,329,818	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON012746"			\$4,329,818	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON012746" "W81XWH1810750"		\$76,261		BECEA BOW AND E	44
"CON012746" "W81XWH1810750" "SUBK00013481"		\$153,603	\$4,329,818	RESEARCH AND DEVELOPMENT	
"CON012746" "W81XWH1810750"	CERC AES	\$153,603 \$299,192	\$4,329,818 \$4,329,818	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON012746" "W81XWH1810750" "SUBK00013481" "S1106501"	\$596,453	\$153,603 \$299,192 \$3,583,225	<i>\$4,329,818</i> <i>\$4,329,818</i> \$4,329,818	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,97 \$1,233,831,97 \$1,233,831,97
"CON012746" "W81XWH1810750" "SUBK00013481"	\$596,453	\$153,603 \$299,192	\$4,329,818 \$4,329,818	RESEARCH AND DEVELOPMENT	\$1,233,831,97 \$1,233,831,9
"CON012746" "W81XWH1810750" "SUBK00013481" "S1106501"	\$596,453	\$153,603 \$299,192 \$3,583,225	<i>\$4,329,818</i> <i>\$4,329,818</i> \$4,329,818	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,97

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
BASIC SCIENTIFIC RESEARCH	12.431	(Срисна,	CARNEGIE MELLON UNIVERSITY
			SCIENTIFIC RESEARCH
BASIC SCIENTIFIC RESEARCH	12.431		CORPORATION
BASIC SCIENTIFIC RESEARCH	12.431		GRAF RESEARCH, LLC
			NORTH CAROLINA STATE
BASIC SCIENTIFIC RESEARCH	12.431		UNIVERSITY
BASIC SCIENTIFIC RESEARCH	12.431		SIGNATURE RESEARCH, INC.
			LUNA INNOVATIONS
BASIC SCIENTIFIC RESEARCH	12.431		INCORPORATED
			ADVANCED SYSTEMS &
BASIC SCIENTIFIC RESEARCH	12.431		TECHNOLOGIES, INC.
			ADVANCED SYSTEMS &
BASIC SCIENTIFIC RESEARCH	12.431		TECHNOLOGIES, INC.
			SCIENTIFIC RESEARCH
BASIC SCIENTIFIC RESEARCH	12.431		CORPORATION
			DIGITAL ANALOG INTEGRATION,
BASIC SCIENTIFIC RESEARCH	12.431		INC.
Di Die Selevini ie Nese men	12.431		DIGITAL ANALOG INTEGRATION,
BASIC SCIENTIFIC RESEARCH	12.431		INC.
BASIC SCIENTIFIC RESEARCH	12.431		MRIGLOBAL
BASIC SCIENTIFIC RESEARCH	12.431		FLORIDA STATE UNIVERSITY
BASIC SCIENTIFIC RESEARCH	12.431		CORNERSTONE RESEARCH GROUP,
BASIC SCIENTIFIC RESEARCH	12.431		INC.
BASIC SCIENTIFIC RESEARCH	12.431		GE GLOBAL RESEARCH
BASIC SCIENTIFIC RESEARCH	12.431		SCIENTIFIC RESEARCH
DACIC SCIENTIFIC DESCRAPCIA	12 421		
BASIC SCIENTIFIC RESEARCH	12.431		CORPORATION
DACIC CCIENTIFIC DECEADOU	12 421		UNIVERSITY OF CALIFORNIA, LOS
BASIC SCIENTIFIC RESEARCH	12.431		ANGELES
BASIC SCIENTIFIC RESEARCH	12.431		CARBONICS, INC.
BASIC SCIENTIFIC RESEARCH	12.431		MILLENNITEK, LLC
BASIC SCIENTIFIC RESEARCH	12.431		TRITON SYSTEMS, INC.
BASIC SCIENTIFIC RESEARCH	12.431		SEMI
DACIC CCIENTIFIC DECEADOU	42.424		ADVANCED SYSTEMS &
BASIC SCIENTIFIC RESEARCH	12.431		TECHNOLOGIES, INC.
BASIC SCIENTIFIC RESEARCH	12.431		MXD
BASIC SCIENTIFIC RESEARCH	12.431		UNIVERSITY OF ARIZONA
BASIC SCIENTIFIC RESEARCH	12.431		MAYO CLINIC, ROCHESTER
BASIC SCIENTIFIC RESEARCH	12.431		GIRD SYSTEMS, INC.
BASIC SCIENTIFIC RESEARCH	12.431		STANFORD UNIVERSITY
BASIC SCIENTIFIC RESEARCH	12.431		AUTONOMOUS SOLUTIONS, INC.
			ENGINEERING AND SOFTWARE
BASIC SCIENTIFIC RESEARCH	12.431		SYSTEM SOLUTIONS, INC. (ES3)
			STEVENS INSTITUTE OF
BASIC SCIENTIFIC RESEARCH	12.431		TECHNOLOGY
BASIC SCIENTIFIC RESEARCH	12.431		R-DEX SYSTEMS, INC.
BASIC SCIENTIFIC RESEARCH	12.431		SIEMENS CORPORATION
			NATIONAL ADVANCED MOBILITY
BASIC SCIENTIFIC RESEARCH	12.431		CONSORTIUM
BASIC SCIENTIFIC RESEARCH	12.431		HILL TECHNICAL SOLUTIONS, INC.
BASIC SCIENTIFIC RESEARCH	12.431		PURDUE UNIVERSITY
			KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
BASIC SCIENTIFIC RESEARCH	12.431		FOUNDATION
			SCIENTIFIC RESEARCH
BASIC SCIENTIFIC RESEARCH	12.431		CORPORATION
BASIC SCIENTIFIC RESEARCH	12.431		CARNEGIE MELLON UNIVERSITY
BASIC SCIENTIFIC RESEARCH	12.431		CORNELL UNIVERSITY
BASIC SCIENTIFIC RESEARCH	12.431		GE GLOBAL RESEARCH
BASIC SCIENTIFIC RESEARCH	12.431		NORTHWESTERN UNIVERSITY

Assigned By Funder	Total Amount		Federal		
Pass-Through Entity	Provided to Sub-Recipients	Federal Expenditures	Program Total	Cluster Name	Cluster Total
"1130233-423485"	Sub Recipients	-\$444	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"SRC20180986"		-\$189	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"W56KGU18C0020"		\$29	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"TRAINING & INSTRUMEN"		\$34	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"AGR DTD 04/11/17"		\$169	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"3623-ARM-1T/GTARC" "PROJECT AGREEMENT NO		\$189	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
1"		\$1,461	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"2017-311 PROJ AGR 04"		\$1,832	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
2017-311 PNOJ AGN 04		\$1,032	3104,712,843	NESEANCH AIND DEVELOPINIENT	\$1,233,631,3
"SR20180865"		\$4,037	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"W911QX19C004"		\$5,454	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"AGR DTD 10/23/17"		\$6,353	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"184069"		\$10,809	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"#R000002607"		\$10,992	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"PO 2020-1714"		\$11,874	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"401153380"		\$12,284	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"AGR DATED 5/14/18"		\$14,777	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,
"1000GSA785"		\$15,445	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"145449"		\$16,789	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"144639"		\$17,003	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"TSI-2663-20-20202640"		\$20,000	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"FT19-21-206"		\$24,615	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"GTRC 143327 DTD					
08/24/2020"		\$25,827	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"2020-09"		\$26,255	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"530518"		\$38,479	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
GEO-259318/PO#67608330"		\$43,141	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"42-004-0321TM70"		\$46,708	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"#61892934-130810"		\$53,764	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"AGMT DTD 19-JUN-2020"		\$71,964	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"17119"		\$74,762	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"#2102942-01"		\$77,518	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"GTARC 145615 DTD					
1/14/2021"		\$82,991	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"205-2"		\$85,000	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"70-201708"		\$92,129	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"OTA-CF-2020PO-1"		\$105,554	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"13000844-026"		\$105,534 \$107,407	\$164,712,849 \$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
13000074-020		\$107,407	7104,/12,049	NESEANCH AND DEVELOPMENT	¥1,233,031,3
"W911NF2020205"		\$113,843	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"SR20201820"		\$139,325	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"1130233-430466"		\$139,323 \$140,946	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"76091-10525"		\$187,777	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"401153812"		\$213,431	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"CON010459"		\$220,118	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,9

Federal Awarding Agency/Program Title	Federal CFDA Number	Additional Award Identification (Optional)	Name of Funder Pass-Through Entity
* * · · · ·			,
BASIC SCIENTIFIC RESEARCH	12.431		AUGUSTUS AEROSPACE COMPANY
BASIC SCIENTIFIC RESEARCH	12.431		GE GLOBAL RESEARCH
BASIC SCIENTIFIC RESEARCH	12.431		SEMI
BASIC SCIENTIFIC RESEARCH	12.431		UNIVERSITY OF PENNSYLVANIA ADVANCED SYSTEMS &
BASIC SCIENTIFIC RESEARCH	12.431		TECHNOLOGIES, INC.
ASIC SCIENTIFIC RESEARCH	12.431		
THE LANGUAGE FLAGSHIP GRANTS TO INSTITUTIONS OF HIGHER			INSTITUTE OF INTERNATIONAL
EDUCATION	12.550		EDUCATION, INC.
THE LANGUAGE FLAGSHIP GRANTS TO INSTITUTIONS OF HIGHER EDUCATION	12.550		INSTITUTE OF INTERNATIONAL EDUCATION, INC.
THE LANGUAGE FLAGSHIP GRANTS TO INSTITUTIONS OF HIGHER EDUCATION	12.550		INSTITUTE OF INTERNATIONAL EDUCATION, INC.
THE LANGUAGE FLAGSHIP GRANTS TO INSTITUTIONS OF HIGHER			INSTITUTE OF INTERNATIONAL
EDUCATION	12.550		EDUCATION, INC.
NVITATIONAL GRANTS FOR MILITARY-CONNECTED SCHOOLS	12.557		
COMMUNITY ECONOMIC ADJUSTMENT ASSISTANCE FOR COMPATIBLE USE AND			
OINT LAND USE STUDIES	12.610		
CONOMIC ADJUSTMENT ASSISTANCE FOR STATE GOVERNMENTS	12.617		
ROOPS TO TEACHERS GRANT PROGRAM	12.620		
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	12.630		WEST COAST SOLUTIONS
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	12.630		OCEUS NETWORKS, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		BAE SYSTEMS, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	12.630		SPACEWORKS ENTERPRISES, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.030		SI ACEVONNS EIVIENI NISES, IIVC.
ENGINEERING	12.630		UNIVERSITY OF CALIFORNIA
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.030		UNIVERSITY OF CALIFORNIA
ENGINEERING	12.630		JACOBS TECHNOLOGY, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.000		NORTHROP GRUMMAN
ENGINEERING	12.630		CORPORATION
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		SYSTEM HIGH CORPORATION
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.000		
ENGINEERING	12.630		DYNETICS, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.050		BTHETTES, INC.
ENGINEERING	12.630		SPACE DYNAMICS LABORATORY
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.000		5,7102
ENGINEERING	12.630		DYNETICS, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			= ,
ENGINEERING	12.630		DYNETICS, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			 ,
ENGINEERING	12.630		EXCET, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			,
ENGINEERING	12.630		SMARTRONIX, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			, ,
ENGINEERING	12.630		LOUISIANA STATE UNIVERSITY
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		LOCKHEED MARTIN CORPORATION
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		UNITED NATIONS
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	12.630		ALION SCIENCE AND TECHNOLOGY CORPORATION
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.030		COM ONATION
ENGINEERING	12.630		IERUS TECHNOLOGIES, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.030		ilnos fectivologies, iive.
ENGINEERING	12.630		OKLAHOMA STATE UNIVERSITY
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	12.630		PHYSICAL SCIENCES, INC.

Identifying Number Assigned By Funder	Total Amount		Federal		
Pass-Through	Provided to	Federal	Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
"GTARC 146761 DTD 2/17/2021"		ć270 211	¢164 712 940	RESEARCH AND DEVELOPMENT	ć1 222 021 0 7 1
"401153817"		\$279,211 \$337,717	\$164,712,849 \$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,971 \$1,233,831,971
"FT-19-20-P198"		\$370,500	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"572622"		\$727,135	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,971
372022		\$727,133	7104,712,043	RESEARCH AND DEVELOPMENT	\$1,233,631,371
"2017-311A PA 5"		\$2,785,691	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$25,482,215	\$158,110,478	\$164,712,849	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	<i>+-0, -0-,0</i>	+ · · · · ·	<i>4</i> = 0 1,1 = 2,0 10		<i>+-,,,</i>
"0054UGA11P"		\$23,039	\$1,035,331	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"0054-UNG-16-CHN-280"		\$30,071	\$1,035,331	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"BOR21-UNG-17-CHN"		\$268,168	\$1,035,331	N/A	\$0
"0054UGA11POR280PO11"	\$6,373	\$714,053	\$1,035,331	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$18,265	\$18,265	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$1,267,394	\$1,267,394	N/A	\$0
	\$131,607	\$248,342	\$248,342	N/A	\$0
	\$208,740	\$208,740	\$208,740	N/A	\$0
"AGR DTD 4-20-18"		-\$1,379	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"P100-SG-1"		-\$424	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"992051"		-\$165	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"AGT DTD APR 9, 2018"		-\$104	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"		4	4		4
"7360408"		-\$33	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
4452.04.00.0C		ćo	¢422 626 060	DECEARCH AND DEVELOPMENT	64 222 024 074
"1153-01-00-06"		\$8	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"HR001117S0025"		\$43	¢122 626 069	RESEARCH AND DEVELOPMENT	ć1 222 021 071
HR00111730023		Ş43	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"HR001117F0001"		\$155	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
HN001117F0001		\$155	\$132,030,008	RESEARCH AND DEVELOPIVIENT	\$1,233,031,371
"TO7/SB5000011"		\$215	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
107/383000011		7213	7132,030,000	RESEARCH AND DEVELOT WENT	\$1,255,051,571
"CP0065524"		\$217	\$132.636.068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
CI 0003324		7217	7132,030,000	NESE/ INC// IVB DEVELOT WEIV	71,233,031,371
"DI-SC-15-05"		\$433	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		,	, , , , , , , , , , , , , , , , , , , ,		, , , .
"DI-SC-15-05 TO4"		\$488	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		,	, , ,		. , , ,
"8071"		\$609	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		·			
"17R14S"		\$740	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"PO-0000126336"		\$2,341	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"4103970772"		\$2,381	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"AGR 06-01-2020"		\$5,279	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"FA807517F1257"		\$5,738	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2021-GTRI-001"		\$8,900	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
			4.44		4. 44
"C3114301"		\$8,950	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"00 40 0:0:5"		40.044	4422 525 255	DECEMBELL AND DELICE CONTENT	64 222 224 2=:
"PO 10-04345"		\$9,011	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971

Federal Awarding Agency/Program Title	Federal CFDA Number	Additional Award Identification (Optional)	Name of Funder Pass-Through Entity
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	Number	(Optional)	Linuty
ENGINEERING	12.630		DYNETICS, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		MACAULAY-BROWN, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	42.620		LEIDOS INIC
ENGINEERING BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.630		LEIDOS, INC. CALIFORNIA INSTITUTE OF
ENGINEERING	12.630		TECHNOLOGY
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		CACI INTERNATIONAL, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		FLORIDA A&M UNIVERSITY STEEL FOUNDERS' SOCIETY OF
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	12.630		AMERICA
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.030		, iivienie, i
ENGINEERING	12.630		CARNEGIE MELLON UNIVERSITY
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		LOCKHEED MARTIN CORPORATION
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	12.630		DYNETICS, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.030		DTINETICS, INC.
ENGINEERING	12.630		JET PROPULSION LABORATORY
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		RAYTHEON COMPANY
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	40.000		
ENGINEERING BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.630		SPACE DYNAMICS LABORATORY
ENGINEERING	12.630		EMORY UNIVERSITY
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.000		2
ENGINEERING	12.630		PHYSICAL SCIENCES, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		ENGENIUSMICRO, LLC
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	12.630		NOVATEUR RESEARCH SOLUTIONS, LLC
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.030		LLC
ENGINEERING	12.630		SIERRA NEVADA CORPORATION
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		DYNETICS, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	40.000		0111 D. 50 D. 150 D
ENGINEERING BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.630		CHARLES RIVER ANALYTICS, INC.
ENGINEERING	12.630		LEIDOS, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.000		22.200,
ENGINEERING	12.630		ELEMENTUM 3D
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		DYNETICS, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	12.630		BIRKELAND CURRENT
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.030		STEVENS INSTITUTE OF
ENGINEERING	12.630		TECHNOLOGY
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		DYNETICS, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	12.630		TECHNOLOGY HOLDING LLC
LINGIINEERIING	12.030		GEORGIA SOUTHERN UNIVERSITY
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			RESEARCH AND SERVICE
ENGINEERING	12.630		FOUNDATION, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			THE CHARLES STARK DRAPER
ENGINEERING	12.630		LABORATORY, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	12.630		NORTHWESTERN UNIVERSITY
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.030		NONTHWESTERN UNIVERSITY
ENGINEERING	12.630		DYNETICS, INC.
			,

"SB800055" \$9,069 \$132,636,068 RESEARCH AND DEVELOPMENT "DSC2134-01" \$9,593 \$132,636,068 RESEARCH AND DEVELOPMENT "P010170252-1" \$9,765 \$132,636,068 RESEARCH AND DEVELOPMENT "S404649" \$13,486 \$132,636,068 RESEARCH AND DEVELOPMENT "P000105680" \$16,400 \$132,636,068 RESEARCH AND DEVELOPMENT "C-5050" \$18,558 \$132,636,068 RESEARCH AND DEVELOPMENT "SP1005" \$18,963 \$132,636,068 RESEARCH AND DEVELOPMENT "21-00038-SUB-000" \$20,586 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971 \$1,233,831,971 \$1,233,831,971 \$1,233,831,971 \$1,233,831,971 \$1,233,831,971 \$1,233,831,971
"P010170252-1" \$9,765 \$132,636,068 RESEARCH AND DEVELOPMENT "S404649" \$13,486 \$132,636,068 RESEARCH AND DEVELOPMENT "P000105680" \$16,400 \$132,636,068 RESEARCH AND DEVELOPMENT "C-5050" \$18,558 \$132,636,068 RESEARCH AND DEVELOPMENT "SP1005" \$18,963 \$132,636,068 RESEARCH AND DEVELOPMENT "21-00038-SUB-000" \$20,586 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971 \$1,233,831,971 \$1,233,831,971 \$1,233,831,971 \$1,233,831,971
"S404649" \$13,486 \$132,636,068 RESEARCH AND DEVELOPMENT "P000105680" \$16,400 \$132,636,068 RESEARCH AND DEVELOPMENT "C-5050" \$18,558 \$132,636,068 RESEARCH AND DEVELOPMENT "SP1005" \$18,963 \$132,636,068 RESEARCH AND DEVELOPMENT "21-00038-SUB-000" \$20,586 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971 \$1,233,831,971 \$1,233,831,971 \$1,233,831,971
"P000105680" \$16,400 \$132,636,068 RESEARCH AND DEVELOPMENT "C-5050" \$18,558 \$132,636,068 RESEARCH AND DEVELOPMENT "SP1005" \$18,963 \$132,636,068 RESEARCH AND DEVELOPMENT "21-00038-SUB-000" \$20,586 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971 \$1,233,831,971 \$1,233,831,971
"C-5050" \$18,558 \$132,636,068 RESEARCH AND DEVELOPMENT "SPI005" \$18,963 \$132,636,068 RESEARCH AND DEVELOPMENT "21-00038-SUB-000" \$20,586 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971 \$1,233,831,971
"SPI005" \$18,963 \$132,636,068 RESEARCH AND DEVELOPMENT "21-00038-SUB-000" \$20,586 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971
"21-00038-SUB-000" \$20,586 \$132,636,068 RESEARCH AND DEVELOPMENT	
	\$1,233,831,971
"1010121" \$20,657 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971
"DI-SC-16-01/TO 146" \$21,477 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1644381" \$21,893 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971
"4202392548" \$22,240 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CP0053206" \$24,157 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971
"A356224" \$25,610 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SC-4566-170221-013-001" \$29,434 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971
"EGM1342" \$34,272 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SUBK-NGA172-003" \$37,376 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971
"S21CNE180" \$40,381 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971
"DI-SC-21-60" \$44,746 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971
"IARPA-BAA-17-08" \$50,612 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971
"P010244149" \$52,068 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971
"W911NF20C0012/A2-7889" \$57,548 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971
"DI-SC-20-91" \$60,516 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1982655" \$62,598 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2103117-01" \$64,129 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971
"DI-SC-16-01 TO 128" \$64,628 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971
"145751" \$64,999 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971
"63828383-6" \$57,134 \$68,585 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SC001-0000001318" \$68,860 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971
"60053553GEOR" \$70,530 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971
"DI-SC-16-01" \$73,436 \$132,636,068 RESEARCH AND DEVELOPMENT	\$1,233,831,971

Federal Awarding Agency/Program Title	Federal CFDA Number	Additional Award Identification (Optional)	Name of Funder Pass-Through Entity
 BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	ramber	(Optional)	Entity
ENGINEERING	12.630		UNIVERSITY OF WASHINGTON
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		CHARLES RIVER ANALYTICS, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	40.600		
ENGINEERING BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.630		JOHNS HOPKINS UNIVERSITY
ENGINEERING	12.630		SIEMENS CORPORATION
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.030		ADVANCED REGENERATIVE
ENGINEERING	12.630		MANUFACTURING INSTITUTE
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		TETRA TECH, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.620		LACORS TECHNOLOGY, INC
ENGINEERING BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.630		JACOBS TECHNOLOGY, INC.
ENGINEERING	12.630		DYNETICS, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.000		ADVANCED SYSTEMS &
ENGINEERING	12.630		TECHNOLOGIES, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			NORTHROP GRUMMAN
ENGINEERING	12.630		CORPORATION
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		UNIVERSITY OF MICHIGAN
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	12.630		UNIVERSITY OF PENNSYLVANIA
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.030		STEVENS INSTITUTE OF
ENGINEERING	12.630		TECHNOLOGY
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			ADVANCED REGENERATIVE
ENGINEERING	12.630		MANUFACTURING INSTITUTE
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		WEST COAST SOLUTIONS
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	12.630		SRI INTERNATIONAL
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.030		SKI INTERNATIONAL
ENGINEERING	12.630		DYNETICS, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		HARRIS CORPORATION
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		RICE UNIVERSITY
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.620		UNIVERSITY OF ILLINOIS AT
ENGINEERING BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.630		URBANA-CHAMPAIGN
ENGINEERING	12.630		INTEL CORPORATION
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		PHOSPHORTECH CORPORATION
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			NORTHROP GRUMMAN
ENGINEERING	12.630		CORPORATION
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	40.000		
ENGINEERING BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.630		INFORMATION SCIENCES INSTITUTE
ENGINEERING	12.630		DYNETICS, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.030		ADVANCED REGENERATIVE
ENGINEERING	12.630		MANUFACTURING INSTITUTE
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		AZIMUTH CORPORATION
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		UNIVERSITY OF NOTRE DAME
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	12.630		THE CHARLES STARK DRAPER
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.030		LABORATORY, INC.
ENGINEERING	12.630		BAE SYSTEMS, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			,
ENGINEERING	12.630		SAIC, INC.

Identifying Number Assigned By Funder Pass-Through Entity	Total Amount Provided to Sub-Recipients	Federal Expenditures	Federal Program Total	Cluster Name	Cluster Total
"UWSC11912"		\$76,276	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"140D0419C0048"		\$86,643	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2004731073"		\$86,969	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"208-03"		\$89,024	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"T0171"		\$90,459	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"AID-OAA I-14-00068/TO-16- 00016"		\$98,401	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"GSQ0415DB0065"		\$100,455	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"PO SB80027"		\$102,698	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2017-311A PA 06"		\$110,465	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"PO#5300010064"		\$110,535	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SUBK00011571"		\$117,703	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"#576905"		\$119,972	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2102962-01WRT 1012"		\$124,488	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"T1075"		\$128,703	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"140208"		\$131,669	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"HR0011-18-C-0051"		\$139,291	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"DISC1505 TO 09"		\$151,797	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"PO A000502775"		\$164,592	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"R1A601"		\$168,434	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"096363-17536"		\$171,408	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CW2051835"		\$173,287	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"AGR DTD 8/4/2017"		\$182,059	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"GS00Q14OADU325"		\$187,681	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"136299980"		\$190,151	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"DI-SC-15-05 TO 10"		\$193,789	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"T0170"		\$195,551	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"AWARD_CONTRACT_LINE-3- 16022"		\$200,363	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"203278GT-KHAN"		\$207,036	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SC001-0000001394"		\$218,761	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1017356"		\$232,553	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"P010251920"		\$237,601	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	Number	(Optional)	Entity
ENGINEERING	12.630		UNIVERSITY OF NOTRE DAME
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		SIERRA NEVADA CORPORATION
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.630		ADVANCED FUNCTIONAL FABRICS
ENGINEERING BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.030		OF AMERICA (AFFOA)
ENGINEERING	12.630		UNIVERSITY OF NOTRE DAME
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	12.630		
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		UNIVERSITY OF NOTRE DAME
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		COLLINS AEROSPACE
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		UNIVERSITY OF NOTRE DAME
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	12.630		LEIDOS, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND	12.030		LEIDOS, INC.
ENGINEERING	12.630		JACOBS TECHNOLOGY, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND			
ENGINEERING	12.630		INTELLIGENT AUTOMATION, INC.
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	12.630		
SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS (STEM) EDUCATIONAL			
PROGRAM: SCIENCE, MATHEMATICS AND RESEARCH FOR TRANSFORMATION			
(SMART)	12.631		
LEGACY RESOURCE MANAGEMENT PROGRAM	12.632		LONGLEAF ALLIANCE
			GEORGIA SOUTHERN UNIVERSITY
LEGACY RESOURCE MANAGEMENT PROGRAM	12.632		RESEARCH AND SERVICE FOUNDATION, INC.
UNIFORMED SERVICES UNIVERSITY MEDICAL RESEARCH PROJECTS	12.750		GENEVA FOUNDATION
OWN OWNED SERVICES OWN ENSAW MEDICAL RESERVENT MOSECIS	12.730		INNOVATIVE SCIENTIFIC
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		SOLUTIONS, INC.
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		IOWA STATE UNIVERSITY
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		KBRWYLE
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		KBRWYLE
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		BAE SYSTEMS, INC.
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		IMPACT TECHNOLOGIES, LLC
AID FORCE DEFENCE DECEARCH COIENCES DROCDAM	12.800		ALTAMIRA TECHNOLOGIES
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		CORPORATION
			SOUTHWESTERN OHIO COUNCIL
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		FOR HIGHER EDUCATION
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		OHIO AEROSPACE INSTITUTE
			MASSACHUSETTS INSTITUTE OF
			TECHNOLOGY, LINCOLN
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		LABORATORY
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		SPECTRAL ENERGIES, LLC
			BINGHAMTON UNIVERSITY, STATE
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		UNIVERSITY OF NEW YORK
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		UTAH STATE UNIVERSITY
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		ATC MATERIALS
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		NEXTFLEX
			HEWLETT PACKARD ENTERPRISE
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		DEVELOPMENT LP
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		MATRIX RESEARCH, INC.
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		MATRIX RESEARCH, INC.
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800 12.800		JT4, LLC STELLAR SCIENCE
AIN FONCE DEFENSE RESEARCH SCIENCES FROGRAM	12.000		STEEDIN SCIENCE
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		SOUTHWEST RESEARCH INSTITUTE

Identifying Number Assigned By Funder Pass-Through Entity	Total Amount Provided to Sub-Recipients	Federal Expenditures	Federal Program Total	Cluster Name	Cluster Total
"203278GT-NAEEMI"	,	\$243,793	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		, ,			
"S21FNE063"		\$248,293	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"W15QKN-16-3-0001"		\$290,675	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"#203278GT-BAKIR"		\$294,351	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$306,615	\$132,636,068	N/A	\$0
"#203278GT-YU"		\$313,057	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"PO 4507393359"		\$414,345	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"203278GT- RAYCHOWDHURY"		\$633,423	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"P010192863"		\$1,186,591	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1153-01-02-06"		\$1,527,144	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2509-1"		\$2,346,283	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$5,442,231	\$119,002,109	\$132,636,068	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"22 22422"		\$1	\$1	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"20-00108"		\$35,276	\$84,539	N/A	\$0
"63828383-7"		\$49,263	\$84,539	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"11052-N20A01GR"		\$8,474	\$8,474	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"AGR DTD 4/28/2020"		-\$10,695	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"130186"		-\$10,199	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"LXS005518"		-\$7,009	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"APSC02292"		-\$3,188	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"994129"		-\$2,020	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"S1309A"		-\$1,065	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"13025_001-GTRI"		-\$861	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"RY9-GA-19-5-AFRL2"		-\$694	\$221,669,776	N/A	\$0
"OAI-PACE-17005 MOD#002"		-\$531	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"7000434835"		-\$37	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"FA8650-18-C-2001"		-\$20	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"81628/1147215-2"		-\$5	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CP0047450"		-33 \$1			
"FA865118P0054"		\$1 \$2	\$221,669,776 \$221,669,776	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,971 \$1,233,831,971
"AGREEMENT DATED 21-FEB-		<i>پ</i> ر	7221,003,770	ALGEARCH AND DEVELOPIVIEW	71,233,031,3/1
2017"		\$4	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CW2275049"		\$8	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"FA8650-14-D-1722"		\$23	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"ESCE-002"		\$24	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"FA824018C7218"		\$49	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"140941"		\$80	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"J99080CT"		\$84	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,971

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	entity
reactar Awaraning Agency, rrogram Title	rumber	(Optional)	NORTHROP GRUMMAN
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		CORPORATION
R FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		UES, INC.
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		AURA TECHNOLOGIES, LLC
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		TAU TECHNOLOGIES, LLC
			LUNA INNOVATIONS
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		INCORPORATED
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		SURVICE ENGINEERING COMPANY
			BINGHAMTON UNIVERSITY, STATE
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		UNIVERSITY OF NEW YORK
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		UNIVERSITY OF CENTRAL FLORIDA
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		FREEDOM PHOTONICS, LLC
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		AZIMUTH CORPORATION
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		UES, INC.
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		SOUTHWEST RESEARCH INSTITUTE
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		SPECTRAL ENERGIES, LLC
			UNIVERSAL TECHNOLOGY
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		CORPORATION NORTHROP GRUMMAN
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		CORPORATION
AIN FONCE DEFENSE RESEARCH SCIENCES PROGRAIVI	12.000		NORTHROP GRUMMAN
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		CORPORATION
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		SPECTRAL ENERGIES, LLC
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		X-WAVE INNOVATIONS, INC.
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		SEARCH TECHNOLOGIES
7.11.17 G.1.02 B.2.1 2.1.02 11.2527 11.1.07 G.01.217 G.2.07 11.10 G.11/1 11.11	12.000		MAGEE TECHNOLOGIES, LLC
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		(MTECH)
			GLOBAL TECHNOLOGY
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		CONNECTION, INC.
			NORTHROP GRUMMAN
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		CORPORATION
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		RELIANCE TEST & TECHNOLOGY
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		NATIONAL AEROSPACE SOLUTIONS
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		RELIANCE TEST & TECHNOLOGY
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		SOSSEC, INC.
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		JT4, LLC
			UNIVERSAL TECHNOLOGY
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		CORPORATION
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		L3 TECHNOLOGIES, INC.
			MASSACHUSETTS INSTITUTE OF
			TECHNOLOGY, LINCOLN
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		LABORATORY
			UNIVERSITY OF TEXAS AT SAN
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		ANTONIO
			SOUTHWESTERN OHIO COUNCIL
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		FOR HIGHER EDUCATION
			CRAFT AEROSPACE TECHNOLOGIES
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		INC.
			SCIENTIFIC RESEARCH
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		CORPORATION
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		ATC MATERIALS
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		APTIMA, INC. INNOVATIVE ADVANCED
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		MATERIALS, INC.
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		JAUNT AIR MOBILITY, LLC
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		FREEDOM PHOTONICS, LLC

Identifying Number Assigned By Funder	Total Amount		Federal			
Pass-Through	Provided to	Federal	Program	Cluster	Cluster	
Entity	Sub-Recipients	Expenditures	Total	Name	Total	
"MP00251956"		\$90	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
IVIF-00251950		\$130	\$221,669,776	N/A	\$1,233,031,9	
"S-124-020-002"		\$163	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"AGR DTD 11/14/17"		\$171	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"TAU 2019-002"		\$182	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
77.0 2013 002		¥101	<i>\$222,003,770</i>	712027 11107 17 17 17 17 17 17 17 17 17 17 17 17 17	<i>ψ1)100)001)3</i>	
"3660-AFR-1S/GTARC"		\$295	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
085001.002.0181.2014"		\$1,599	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"FA8650-15-2-5401"		\$2,060	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"287381"		\$2,333	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"#S7200-01"		\$3,074	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
#37200-01 "2385404UGAH2"		\$5,608	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"S-162-11-MR002"		\$7,142	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
3 TOZ II WINOUZ		<i>₹1,</i> 142	7221,003,770	ALGEARCH AND DEVELOPIVILIA	71,233,631,3	
"P99026N"		\$9,699	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"SB1819-001-1"		\$9,956	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
142411-16F2639-20-53-		φ3)330	<i>4222</i>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ψ1)200)001)3	
C11"		\$11,959	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"SP00116946"		\$12,626	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"MP00301412"		\$14,480	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"SB2104-001-1"		\$14,874	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"1064-1"		\$15,000	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"EGLIN-05012020"		\$16,959	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"N000197248P800"		\$18,236	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
AWARD DTD 11/18/19"		\$18,242	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"1012178816"		\$20.747	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"R21N0188"		\$20,801	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"421015"		\$22,345	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"R20N0218"		\$22,402	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"PLA-0047"		\$22,441	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"4021GT3098"		\$22,560	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
		,	,			
"17-S8401-03-C1"		\$24,273	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"4501766939"		\$24,834	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"7000485217"		\$24,999	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"1000003116"		\$25,920	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"RY9-GA-19-5-AFRL2"		\$30,598	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"145826"		\$32,300	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"SR20210264"		\$34,263	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
AGMT DTD 11-08-2019"		\$34,281	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"1401-1986"		\$38,312	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"FA8650-19-P-5195"		\$44,767	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"AF-STTR-SUB-003"		\$45,009	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"SAF20A-T002"		\$47,331	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	

	Federal	Additional Award	Name of Funder
Federal Awarding Agency/Program Title	CFDA Number	Identification (Optional)	Pass-Through Entity
reactur Awarumg Agencyyr rogram Trac	ivamber	(Optional)	LAUNCHPOINT ELECTRIC
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		PROPULSION SOLUTIONS, INC.
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		LONG WAVE, INC.
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		L3 TECHNOLOGIES, INC.
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		JT4, LLC
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		UNIVERSITY OF HAWAI'I
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		JT4, LLC
			INNOVATIVE ADVANCED
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		MATERIALS, INC.
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		LYNNTECH, INC.
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		THE PERDUCO GROUP, INC.
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		EARTHLY DYNAMICS, LLC
AINTONCE DEL ENSE RESEARCH SCIENCES I NOCHAMI	12.000		LAUNCHPOINT ELECTRIC
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		PROPULSION SOLUTIONS, INC.
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		CORNELL UNIVERSITY
AIN FONCE DEFENSE RESEARCH SCIENCES PROGRAIN	12.800		CORNELL UNIVERSITY
AND FORCE DEFENCE DESCARCING CONTACTS PROCEDUM	12.000		STONY BROOK UNIVERSITY, STATE
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		UNIVERSITY OF NEW YORK
AID FORCE DEFENCE DECEARCH CCIENCES DROCDANA	12.000		CTELLAR CCIENCE
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		STELLAR SCIENCE
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		EARTHLY DYNAMICS, LLC
AVD 50005 0 555405 0 50540 0 4 4 5054 0 50 0 0 0	42.000		NORTH CAROLINA STATE
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		UNIVERSITY
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		RAYTHEON COMPANY
			NORTHROP GRUMMAN
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		CORPORATION
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		TAU TECHNOLOGIES, LLC
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		WRIGHT BROTHERS INSTITUTE
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		INFOSCITEX CORPORATION
			LUNA INNOVATIONS
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		INCORPORATED
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		KBRWYLE
			MASSACHUSETTS INSTITUTE OF TECHNOLOGY, LINCOLN
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		LABORATORY
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		THE BOEING COMPANY
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		PURDUE UNIVERSITY
			BINGHAMTON UNIVERSITY, STATE
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		UNIVERSITY OF NEW YORK
			UNIVERSAL TECHNOLOGY
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		CORPORATION
			FLORIDA INSTITUTE OF
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		TECHNOLOGY
			SCIENTIFIC RESEARCH
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		CORPORATION
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		OPTOXENSE, INC.
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		UES, INC.
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		JT4, LLC
			FLORIDA INTERNATIONAL
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		UNIVERSITY
THE TORKE DETENSE RESEARCH SCIENCES THOUGHT	12.000		SCIENTIFIC RESEARCH
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		CORPORATION
AIN ONCE DE ENSE RESEARCH SCENCES I ROSIVINI	12.000		BINGHAMTON UNIVERSITY, STATE
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		UNIVERSITY OF NEW YORK
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		VERUS RESEARCH
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		UES, INC.
AIN FONCE DELENSE RESEARCH SCIENCES PROGRAM	12.000		FLORIDA INTERNATIONAL
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		UNIVERSITY
AIN I ONCE DEI ENSE RESEARCH SCIENCES PROGRAIVI	12.000		UNIVERSAL TECHNOLOGY
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		CORPORATION
AIN I ONCE DEI ENSE RESEARCH SCIENCES PROGRAIVI	12.000		CONFORMIUN

Pass Provided to Federal Program	Identifying Number Assigned By Funder	Total Amount		Federal			
### Total Sub-Recipients Expenditures Total Mome Total "145789" \$49,091 \$211,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, 123		Provided to	Federal	Program	Cluster	Cluster	
"\$75000000000000000000000000000000000000	Entity	Sub-Recipients	Expenditures	Total	Name	Total	
"\$75000000000000000000000000000000000000	"1/5780"		\$40.001	\$221 660 776	PESEARCH AND DEVELOPMENT	\$1 222 821 0	
"370093088" \$51,195 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, 233,8							
"2020/W3092" \$51,234 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,238,331, "4020/W2539" \$52,787 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,238,331, "4020/W2539" \$52,787 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,238,331, "47,0437" \$55,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,238,331, "47,036" \$60,154 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,238,331, "47,036" \$60,154 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,238,331, "47,036" \$60,154 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,238,331, "90,455-211334" \$64,655 \$222,669,776 RESEARCH AND DEVELOPMENT \$1,238,331, "90,455-21334" \$65,501 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,238,331, "47,5791" \$64,655 \$222,669,776 RESEARCH AND DEVELOPMENT \$1,238,331, "30,455-31334" \$65,501 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,238,331, "47,5791" \$7,5791" \$7,5791 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,238,331, "47,5791" \$7,5791 \$1,57			· · ·				
"CONO7875" \$2,244 \$221,669.776 RESEARCH AND DEVELOPMENT \$1,233,831. "144038" \$52,787 \$221,669.776 RESEARCH AND DEVELOPMENT \$1,233,831. "144038" \$53,383 \$221,669.776 RESEARCH AND DEVELOPMENT \$1,233,831. "147036" \$63,457 \$221,669.776 RESEARCH AND DEVELOPMENT \$1,233,831. "147036" \$63,457 \$221,669.776 RESEARCH AND DEVELOPMENT \$1,233,831. "147036" \$64,655 \$221,669.776 RESEARCH AND DEVELOPMENT \$1,233,831. "90452-11334" \$65,501 \$221,669.776 RESEARCH AND DEVELOPMENT \$1,233,831. "90452-11334" \$74,780" \$72,589 \$221,669.776 RESEARCH AND DEVELOPMENT \$1,233,831. "90452-11334" \$74,780" \$72,589 \$221,669.776 RESEARCH AND DEVELOPMENT \$1,233,831. "147800" \$86,040 \$221,669.776 RESEARCH AND DEVELOPMENT \$1,233,831. "147800" \$86,040 \$221,669.776 RESEARCH AND DEVELOPMENT \$1,233,831. "147800" \$98,002 \$221,669.776 RESEARCH AND DEVELOPMENT \$1,233,831. "147800" \$98,002 \$221,669.776 RESEARCH AND DEVELOPMENT \$1,233,831. "1578-01,047ECH" \$98,217 \$221,669.776 RESEARCH AND DEVELOPMENT \$1,233,831. "1578-01,047ECH" \$98,002 \$221,669.776 RESEARCH AND DEVELOPMENT \$1,233,831. "1578-01,047ECH" \$98,002 \$221,669.776 RESEARCH AND DEVELOPMENT \$1,233,831. "1578-01,047ECH" \$10,049 \$221,669.776 RESEARCH AND DEVELOPMENT \$1,233,831. "1578-01,047ECH" \$10,049 \$221,669.776 RESEARCH AND DEVELOPMENT \$1,233,831. "1578-01,047ECH" \$10,049 \$221,669.776 RESEARCH AND DEVELOPMENT \$1,233,831. "1578-01,047ECH" \$1,049 \$221,669.776 RESEARCH AND DEVELOPMENT \$1,233,831. "1578-01,04000" \$1,049 \$221,669.776 RESEARCH AND DEVELOPMENT							
"44020W2539" \$52,787 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "44638" \$53,0338 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "477936" \$50,154 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "477931" \$60,154 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "477931" \$64,655 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "90452-11334" \$65,501 \$24,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "90452-11334" \$65,501 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "30626/7/1144990" \$66,499 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "3079452-11334" \$67,547 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "308026/7/1144990" \$67,547 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "308026/7/1144990" \$67,547 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "308026/7/1144990" \$79,960 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "308026/7/1144990" \$24,641 \$24,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "40,00026/97 \$24,000,776 RESEARCH AND DEVELOPMENT \$1,233,831, "40,000,776 RESEARCH AND DEVELOPMENT \$1,233,831, "40,000,776 \$24,000,776 RESEARCH AND DEVELOPMENT \$1,233,831, "40,000,776 RESEARCH AND							
"AF-047"						\$1,233,831,9 \$1,233,831,9	
"AF-047"							
"ATP 13 ARR 2020"			1 7				
"147036" \$83,457 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "145791" \$64,655 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "80626/2/11343" \$65,501 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "80626/2/1144990" \$66,949 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "80626/2/1144990" \$67,547 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, GTRC AGMT DTD 11-03- 2000" \$67,547 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "2019-1679-02" \$79,960 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "2019-1679-02" \$79,960 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "300019650-GTR" \$82,641 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "5300019650-GTR" \$82,641 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "WBPD01039GTR" \$88,021 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "PO 194763" \$89,021 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "PO 194763" \$89,021 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "PO 194763" \$89,021 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "PO 194763" \$93,270 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "STANDAY SEARCH SEARCH SEARCH SEARCH AND DEVELOPMENT \$1,233,831, "STANDAY SEARCH SEARCH SEARCH SEARCH AND DEVELOPMENT \$1,233,831, "STANDAY SEARCH SEARCH AND DEVE			· ·				
"145/91"							
"90452-11334" \$65,501 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "80626/2/1144990" \$66,949 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "6076C ACMT DTD 11-03- "145780" \$72,589 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "2019-1679-02" \$79,960 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "4201988553" \$81,657 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "4300019650-GTRI" \$82,641 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "7MJ 2021-003" \$86,424 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "YBMP021039GTRI" \$88,802 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "YBMP021039GTRI" \$88,802 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "YBMP021039GTRI" \$88,021 \$222,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "YBMP021039GTRI" \$89,021 \$222,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "YCLYOOG819" \$93,270 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "YCLYOOG819" \$93,270 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "YBMP021039CTRI" \$1,233,831,	"147036"		\$63,457	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"806.26/3/1144990"	"145791"		\$64,655	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
GTRC AGMT DTD 11-03- 2020" \$67,547 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "2019-1679-02" \$79,960 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "2019-1679-02" \$79,960 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "3019-1679-02" \$88,657 \$81,657 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "5300019650-GTRI" \$82,641 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "5780210482 (Name) \$88,021 \$88,022 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "89,021 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "89,021 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "80,021 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "80,023,721 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "80,023,721 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "80,023,721 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "80,033,721 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "81,030,071-6051" \$106,494 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "81,030,071-6051" \$109,495 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "81,030,071-6051" \$109,495 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87,0210482 (M13)" \$11,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87,0210482 (M13)" \$110,501 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87,02010482 (M13)" \$110,0003** \$110,000 \$110,000** \$110,000** \$110,000** \$110,000** \$110,000** \$110,000** \$110,000** \$110,000** \$110,000**	"90452-11334"		\$65,501	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
GTRC AGMT DTD 11-03- 2020" \$67,547 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "2019-1679-02" \$79,960 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "2019-1679-02" \$79,960 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "3019-1679-02" \$88,657 \$81,657 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "5300019650-GTRI" \$82,641 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "5780210482 (Name) \$88,021 \$88,022 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "89,021 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "89,021 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "80,021 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "80,023,721 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "80,023,721 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "80,023,721 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "80,033,721 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "81,030,071-6051" \$106,494 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "81,030,071-6051" \$109,495 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "81,030,071-6051" \$109,495 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87,0210482 (M13)" \$11,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87,0210482 (M13)" \$110,501 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87,02010482 (M13)" \$110,0003** \$110,000 \$110,000** \$110,000** \$110,000** \$110,000** \$110,000** \$110,000** \$110,000** \$110,000** \$110,000**							
2020" \$67,547 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "145780" \$72,589 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "2019-1679-02" \$79,960 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "420198553" \$81,657 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "5300019650-GTRI" \$82,641 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "4740 2021-003" \$86,424 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "WADPO2109057RI" \$88,802 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "YO 194763" \$88,802 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "400019976" \$89,217 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "41,576,01GATECH" \$89,217 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "41,576,01GATECH" \$93,270 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "41,576,01GATECH" \$93,270 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "41,576,01GATECH" \$10,571 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "41,576,01GATECH" \$10,576 RESEARCH AND DEVELOPMENT \$1,233,831. "51,576,01GATECH" \$1,576,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,2			\$66,949	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"145780" \$72,589 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "2019-1679-02" \$79,960 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "4201988553" \$81,657 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "5300019650-GTRI" \$82,641 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "700103" \$86,424 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "8002019050TRI" \$88,802 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "90 194765" \$88,802 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "90 194765" \$89,021 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "10,0194765" \$93,270 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "10,00437192" \$95,275 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "7000437192" \$95,275 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "11,233,831," "11,233,831," "MARD_CONTRACT_LINE-3- 18232" \$106,494 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "18232" \$106,494 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "1876-COLTRACT_LINE-3- 18232" \$106,905 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "07FACT-17-C-0001" \$109,495 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "58720210482 (1413)" \$10,501 \$21,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "67820210482 (1413)" \$10,501 \$21,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "67800009491-01UG" \$130,929 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "67900001002" \$127,600 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "67900001002" \$127,600,776 RESEARCH AND DEVELOPMENT \$1,233,831, "679000010034-01UG" \$130,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "679000010034-01UG" \$124,609,776 RESEARCH AND DEVELO							
"2019-1679-02" \$79,960 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "4201988553" \$81,657 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "5300019650-GTRI" \$82,641 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "WARDOLO930" \$86,424 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "WARDOLO930" \$88,802 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "WARDOLO930" \$88,802 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "Y0194763" \$89,021 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "X576.01GATECH" \$89,217 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "XX5006819" \$93,270 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "XX5006819" \$93,270 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "WARD_CONTRACT_LINE-3- 18232" \$106,494 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "WARD_CONTRACT_LINE-3- 18232" \$106,905 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "DTFACT-17-C-0001" \$109,495 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "DTFACT-17-C-0001" \$109,495 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "S7820210482 (413)" \$110,501 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "S7820210482 (413)" \$110,501 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "S7820210482 (413)" \$12,230,831. "S7820210482 (413)" \$12,230,831. "S820210482 (413)" \$12,230,831. "S820210482 (413)" \$130,502 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "S820210482 (413)" \$130,502 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "S7820210482 (413)" \$130,502 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "S820210400" \$122,999 \$222,1669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "S82021052" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "S820201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831. "S820	2020"		\$67,547	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"4201988553" \$81,657 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "5300019650-GTRI" \$82,641 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "WB0701039GTRI" \$88,802 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "PO 194763" \$89,021 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "PO 194763" \$89,021 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "Y800011034-0110G" \$103,029 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "S276.01GATECH" \$89,217 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "X8000116-051" \$93,270 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "1944274" \$103,771 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "4130000716-051" \$106,494 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "413000716-051" \$106,494 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "413000716-051" \$106,494 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "413000716-051" \$109,495 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "5780210482 (1413)" \$110,501 \$123,691,776 RESEARCH AND DEVELOPMENT \$1,233,831, "5780210482 (1413)" \$110,501 \$11,500 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "5780210482 (1413)" \$110,501 \$11,500	"145780"		\$72,589	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"4201988553" \$81,657 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "5300019650-GTRI" \$82,641 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "WB0701039GTRI" \$88,802 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "PO 194763" \$89,021 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "PO 194763" \$89,021 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "Y800011034-0110G" \$103,029 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "S276.01GATECH" \$89,217 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "X8000116-051" \$93,270 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "1944274" \$103,771 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "4130000716-051" \$106,494 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "413000716-051" \$106,494 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "413000716-051" \$106,494 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "413000716-051" \$109,495 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "5780210482 (1413)" \$110,501 \$123,691,776 RESEARCH AND DEVELOPMENT \$1,233,831, "5780210482 (1413)" \$110,501 \$11,500 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "5780210482 (1413)" \$110,501 \$11,500	"2019-1679-02"		\$79.960	\$221 669 776	RESEARCH AND DEVELOPMENT	\$1 233 831	
"TAU 2021-003" \$86.424 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "WBPO21039GTRI" \$88,802 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "Both 194763" \$89,021 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "3576.016ATECH" \$89,217 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "Local State of the control						\$1,233,831,	
"TAU 2021-003" \$86,424 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "WBPO21039GTRI" \$88,802 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "Both 194763" \$89,021 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "3576.01GATECH" \$89,217 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "Local State of the control							
"WBPO21039GTRI" \$88,802 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "90 194763" \$89,021 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "3576.01GATECH" \$89,217 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "LKS006819" \$93,270 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "7000437192" \$95,275 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "1944274" \$103,771 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "413000716-051" \$106,494 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "483000716-051" \$106,905 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, 18232" \$107,360 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "55852-18F5828-19-16-C1" \$107,360 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "57820210482 (413)" \$110,501 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "57820210482 (413)" \$117,600 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "57820210480" \$117,600 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "57820210480" \$117,600 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "57820210490" \$117,600 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "5782021040" \$117,600 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "5782021052" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "57820201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "67820201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "67820201522" \$141,996 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "67820201520" \$141,996 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233			\$82,641	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"PO 194763" \$89,021 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "3576.01GATECH" \$89,217 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "LXS006819" \$93,270 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "7000437192" \$95,275 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "1944274" \$103,771 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "413900716-051" \$106,494 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "MARD_CONTRACT_LINE-3- 18232" \$106,905 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "65852-18F5828-19-16-C1" \$107,360 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "DTFACT-17-C-0001" \$109,495 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR20210482 (J413)" \$110,501 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR20201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR20201522" \$136,9776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR20201522" \$136,9776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR20201522" \$136,9776 R	"TAU 2021-003"		\$86,424	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"3576.01GATECH" \$89,217 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "LXS006819" \$93,270 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "7000437192" \$95,275 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "1944274" \$103,771 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "#13000716-051" \$106,494 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "#13000716-051" \$106,905 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, ****SE222" \$106,905 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "****SE322" \$106,905 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "***DIFFACT-17-C-0001" \$109,495 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "***SR20210482 (J413)" \$110,501 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "***SR20210482 (J413)" \$110,501 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "***SR20210480 (S121,959 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "***SF3-11-IMR006" \$121,959 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "***SR20210480 (S121,959 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "***SR20201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "***SR20201522" \$14,996 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "*****SR20201522" \$14,996	"WBPO21039GTRI"		\$88,802	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"LXSO06819" \$93,270 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "7000437192" \$95,275 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "1944274" \$103,771 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "#13000716-051" \$106,494 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, NARD_CONTRACT_LINE-3- 18232" \$106,905 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "517,360 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "DTFACT-17-C-0001" \$109,495 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR20210482 (1413)" \$110,501 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "STEC SUBK 141593 DTD 9- 21-2020" \$117,600 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "S-162-11-MR006" \$121,959 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "TS-162-11-MR006" \$121,959 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "R800011034-01UG" \$130,292 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR20201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "S-7545/1160002" \$140,234 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "S-7545/1160002" \$141,996 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "S-162-11-MR008" \$150,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831,	"PO 194763"		\$89,021	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"7000437192" \$95,275 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "1944274" \$103,771 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "WI3000716-051" \$106,494 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, WARD_CONTRACT_LINE-3- 18232" \$106,905 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "OTFACT-17-C-0001" \$109,495 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR20210482 (J413)" \$110,501 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR20210482 (J413)" \$130,292 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR20210482 (J413)" \$130,292 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR2021052" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR20201522" \$141,996 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR200009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR200009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR2000009491-01UG" \$160,875 \$221,669,776	"3576.01GATECH"		\$89,217	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"1944274" \$103,771 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "#13000716-051" \$106,494 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, WARD_CONTRACT_LINE-3- 18232" \$106,905 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, 65852-18F5828-19-16-C1" \$107,360 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "DTFACT-17-C-0001" \$109,495 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$7820210482 (1413)" \$110,501 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, 578C \$117,600 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "S-162-11-MR006" \$121,959 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800011034-01UG" \$130,292 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87820201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87820201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87820201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87820201522" \$130,292 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87820201522" \$130,292 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87820201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87820201522" \$141,996 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "5-162-11-MR008" \$150,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "5-162-11-MR008"	"LXS006819"		\$93,270	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"1944274" \$103,771 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "#13000716-051" \$106,494 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, WARD_CONTRACT_LINE-3- 18232" \$106,905 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, 65852-18F5828-19-16-C1" \$107,360 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "DTFACT-17-C-0001" \$109,495 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$7820210482 (1413)" \$110,501 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, 578C \$117,600 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "S-162-11-MR006" \$121,959 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800011034-01UG" \$130,292 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87820201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87820201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87820201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87820201522" \$130,292 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87820201522" \$130,292 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87820201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87820201522" \$141,996 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "5-162-11-MR008" \$150,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "5-162-11-MR008"							
"#13000716-051" \$106,494 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, WARD_CONTRACT_LINE-3- 18232" \$106,905 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, 65852-18F5828-19-16-C1" \$107,360 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "DTFACT-17-C-0001" \$109,495 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR20210482 (J413)" \$110,501 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "STRC SUBK 141593 DTD 9- 21-2020" \$117,600 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "5-162-11-MR006" \$122,959 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "700009/0002" \$125,884 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800011034-01UG" \$130,292 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87545/1160002" \$140,234 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87546-11-MR008" \$150,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87546-11-MR008" \$150,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831,	"7000437192"		\$95,275	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
WARD_CONTRACT_LINE-3- 18232" \$106,905 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, 65852-18F5828-19-16-C1" \$107,360 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "DTFACT-17-C-0001" \$109,495 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR20210482 (J413)" \$110,501 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "STRC SUBK 141593 DTD 9- 21-2020" \$117,600 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "5-162-11-MR006" \$121,959 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "700009/0002" \$125,884 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800011034-01UG" \$130,292 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "5R20201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87545/1160002" \$140,234 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87545/1160002" \$140,234 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "875462-11-MR008" \$141,996 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "875462-11-MR008" \$150,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "8800009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "8800009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "8800009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831,	"1944274"		\$103,771	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
18232" \$106,905 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, 65852-18F5828-19-16-C1" \$107,360 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "DTFACT-17-C-0001" \$109,495 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR20210482 (J413)" \$110,501 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "TRC SUBK 141593 DTD 9- 21-2020" \$117,600 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "S-162-11-MR006" \$121,959 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "700009/0002" \$125,884 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800011034-01UG" \$130,292 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR20201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR20201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "1110-00037" \$141,996 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "S162-11-MR008" \$150,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "S162-11-MR008" \$150,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "S23,831,"S300009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831,	"#13000716-051"		\$106,494	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
18232" \$106,905 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, 65852-18F5828-19-16-C1" \$107,360 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "DTFACT-17-C-0001" \$109,495 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR20210482 (J413)" \$110,501 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "STRC SUBK 141593 DTD 9- 21-2020" \$117,600 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "S-162-11-MR006" \$121,959 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "700009/0002" \$125,884 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800011034-01UG" \$130,292 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR20201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR20201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "110-00037" \$140,234 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "5-162-11-MR008" \$150,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "5-162-11-MR008" \$150,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831,	WARD CONTRACT LINE-3-						
"DTFACT-17-C-0001" \$109,495 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$R20210482 (J413)" \$110,501 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$TRC SUBK 141593 DTD 9- 21-2020" \$117,600 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$-162-11-MR006" \$121,959 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "700009/0002" \$125,884 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800011034-01UG" \$130,292 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$R20201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$87545/1160002" \$140,234 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$1110-00037" \$141,996 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$-162-11-MR008" \$150,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$800009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$800009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831,			\$106,905	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"DTFACT-17-C-0001" \$109,495 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$R20210482 (J413)" \$110,501 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$TRC SUBK 141593 DTD 9- 21-2020" \$117,600 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$-162-11-MR006" \$121,959 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "700009/0002" \$125,884 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800011034-01UG" \$130,292 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$R20201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$87545/1160002" \$140,234 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$1110-00037" \$141,996 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$-162-11-MR008" \$150,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$800009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$800009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831,	65852-18F5828-19-16-C1"		\$107 360	\$221 669 776	RESEARCH AND DEVELOPMENT	\$1,233,831.	
"SR20210482 (1413)" \$110,501 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, STRC SUBK 141593 DTD 9- 21-2020" \$117,600 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "S-162-11-MR006" \$121,959 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "700009/0002" \$125,884 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800011034-01UG" \$130,292 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR20201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87545/1160002" \$140,234 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "1110-00037" \$141,996 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "S-162-11-MR008" \$150,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "S-162-11-MR008" \$150,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831,							
\$117,600 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$-162-11-MR006" \$121,959 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "700009/0002" \$125,884 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800011034-01UG" \$130,292 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$R20201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$87545/1160002" \$140,234 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$1110-00037" \$141,996 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$-162-11-MR008" \$150,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$800009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$1,233,831, "\$1,233,831, "\$1,233,831, "\$2,1669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$2,162-11-MR008" \$1,233,831, "\$3,233,831, "\$3,233,831, "\$3,233,831, "\$3,233,831, "\$4,233,831, "\$5,162-11-MR008" \$1,233,831, "\$5,162	"DTFACT-17-C-0001"		\$109,495	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
21-2020" \$117,600 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "S-162-11-MR006" \$121,959 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "700009/0002" \$125,884 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800011034-01UG" \$130,292 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR20201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87545/1160002" \$140,234 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "1110-00037" \$141,996 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "S-162-11-MR008" \$150,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831,	"SR20210482 (J413)"		\$110,501	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"5-162-11-MR006" \$121,959 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "700009/0002" \$125,884 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800011034-01UG" \$130,292 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$R20201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$7545/1160002" \$140,234 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$1110-00037" \$141,996 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$-162-11-MR008" \$150,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$800009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "\$1,233,831,	GTRC SUBK 141593 DTD 9-						
"700009/0002" \$125,884 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800011034-01UG" \$130,292 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR20201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87545/1160002" \$140,234 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "1110-00037" \$141,996 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "S-162-11-MR008" \$150,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831,	21-2020"		\$117,600	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"800011034-01UG" \$130,292 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "SR20201522" \$136,320 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "87545/1160002" \$140,234 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "1110-00037" \$141,996 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "S-162-11-MR008" \$150,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831,	"S-162-11-MR006"		\$121,959	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"87545/1160002" \$140,234 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "1110-00037" \$141,996 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "S-162-11-MR008" \$150,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831,	"700009/0002"		\$125,884	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"87545/1160002" \$140,234 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "1110-00037" \$141,996 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "S-162-11-MR008" \$150,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831,	"800011034-01UG"		\$130.292	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233.831	
"87545/1160002" \$140,234 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "1110-00037" \$141,996 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "S-162-11-MR008" \$150,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831,			,, -	, , , , , , , , , , , , , , , , , , ,			
"1110-00037" \$141,996 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "S-162-11-MR008" \$150,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831,	"SR20201522"		\$136,320	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
"1110-00037" \$141,996 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "S-162-11-MR008" \$150,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831,	"07E4E /44 C0000"		6440.334	6224 660 776	DECEARCH AND DEVELOPMENT	¢4.222.021	
"S-162-11-MR008" \$150,000 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831, "800009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831,	·						
"800009491-01UG" \$160,875 \$221,669,776 RESEARCH AND DEVELOPMENT \$1,233,831,							
	"S-162-11-MR008"		\$150,000	\$221,669,776	KESEARCH AND DEVELOPMENT	\$1,233,831,	
"162642 20 21 C1" \$177.20E \$224.600.776 DESCRADOU AND DEVELOPMENT \$4.222.024	"800009491-01UG"		\$160,875	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	
	"162642-20-31-C1"		\$177,205	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,	

	Federal	Additional Award	Name of Funder
	CFDA	Identification	Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity TESUNOLOGY
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		ALION SCIENCE AND TECHNOLOGY CORPORATION
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		UNIVERSITY OF CALIFORNIA
THE ONCE SET ENSE RESEARCH SCIENCES FROOD, IN	12.000		ENGINEERING RESEARCH &
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		ANALYSIS COMPANY
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		INFOSCITEX CORPORATION
			ALION SCIENCE AND TECHNOLOGY
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		CORPORATION
	40.000		ALION SCIENCE AND TECHNOLOGY
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		CORPORATION
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		UES, INC.
			BINGHAMTON UNIVERSITY, STATE
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		UNIVERSITY OF NEW YORK
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		UES, INC.
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		SPG INSITUTE
			UNIVERSAL TECHNOLOGY
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		CORPORATION
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		FLEXTECH ALLIANCE, INC.
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		CORNELL UNIVERSITY
			SCIENTIFIC RESEARCH
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		CORPORATION
AID FORCE DESERVES DESCRIPCIO SCIENCES DROCDAM	12.000		ALION SCIENCE AND TECHNOLOGY
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800 12.800		CORPORATION
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		INFOSCITEX CORPORATION SPG INSITUTE
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAIN	12.800		NORTHROP GRUMMAN
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		CORPORATION
7.11.17 G.162 S.2.7 E.162 N.252 N.1617 SG.2.17 G.26 7 116 G.17 117	12,000		MASSACHUSETTS INSTITUTE OF
			TECHNOLOGY, LINCOLN
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		LABORATORY
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		RAYTHEON COMPANY
			ALION SCIENCE AND TECHNOLOGY
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		CORPORATION
			NORTHROP GRUMMAN
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		CORPORATION
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		BOOZ ALLEN HAMILTON, INC.
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		SOSSEC, INC. ALION SCIENCE AND TECHNOLOGY
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		CORPORATION
AIN FONCE DEFENSE RESEARCH SCIENCES PROGRAM	12.000		CONFORMION
			SCIENTIFIC APPLICATIONS AND
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		RESEARCH ASSOCIATES, INC. (SARA)
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800		
LANGUAGE GRANT PROGRAM	12.900		
MATHEMATICAL SCIENCES GRANTS	12.901		
INFORMATION SECURITY GRANTS	12.902		PURDUE UNIVERSITY
			GEORGIA SOUTHERN UNIVERSITY
			RESEARCH AND SERVICE
INFORMATION SECURITY GRANTS	12.902		FOUNDATION, INC.
INFORMATION SECURITY GRANTS	12.902		
INFORMATION SECURITY GRANTS	12.902		
GENCYBER GRANTS PROGRAM	12.903		KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
GENCYBER GRANTS PROGRAM	12.903		FOUNDATION
GENCYBER GRANTS PROGRAM	12.903		. 33
CYBERSECURITY CORE CURRICULUM	12.905		
CYBERSECURITY CORE CURRICULUM	12.905		UNIVERSITY OF FLORIDA
CYBERSECURITY CORE CURRICULUM	12.905		MISSISSIPPI STATE UNIVERSITY
CYBERSECURITY CORE CURRICULUM	12.905		NORWICH UNIVERSITY
RESEARCH AND TECHNOLOGY DEVELOPMENT	12.910		UNIVERSITY OF CALIFORNIA
RESEARCH AND TECHNOLOGY DEVELOPMENT	12.910		EMORY UNIVERSITY

Identifying Number Assigned By Funder	Total Amount		Federal			
Pass-Through	Provided to	Federal	Program	Cluster	Cluster	
Entity	Sub-Recipients	Expenditures	Total	Name	Total	
"SUB1148651-003"		\$180,376	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"#KK1912"		\$185,252	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"FA9101-19-C-0033"		\$203,997	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"213672"		\$208,108	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"SUB1157903 004"		\$214,910	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
'SUB1157903 RELASE 002"		\$225,127	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"S119040001"		\$225,722	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
3113040001		7223,722	Ş221,003,770	NESE/MENT/WED DEVELOT MENT	ψ1,233,031,37	
"85442"		\$226,435	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"S-124-001-004"		\$250,365	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"2019-ARC-S-19004"		\$253,475	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
165852-19F5830-19-03-C1"		¢264.052	\$221 660 776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"FA8650-15-2-5401"		\$264,053 \$272,632	\$221,669,776 \$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9 \$1,233,831,9	
"89102-11265"		\$277,403	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
		, , , , , , , , , , , , , , , , , , , ,	, ,,,,,,		, , , .	
"SR20201140"		\$327,428	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"SUB1148651-002"		\$351,605	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"PO 193640"		\$385,704	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"2019-ARC-S-19006"		\$387,442	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"7500172237-01"		\$388,709	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
#		4	444.444		4	
"7000472951"		\$425,235	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"14787"		\$514,865	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
SUB1157903 RELEASE 001"		\$693,803	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"7500165537"		\$752,060	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"106445SB18/TO 3"		\$907,393	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"FA87501699000"		\$1,015,145	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"SUB1157903-003"		\$1,144,418	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
3021137303 003		<i>ϕ</i> 2,2+4,+20	<i>\$221,003,770</i>	NESE/MENT/WED DEVELOT MENT	\$1,233,031,3	
"ATP DTD 2/20/19"		\$1,612,365	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
7117 272 2720723	\$57,919,800	\$205,398,651	\$221,669,776	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
	40.72.2720	\$18,297	\$18,297	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
		\$232,839	\$232,839	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"30483"		-\$61	\$921,086	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"63828383-8"		\$122,101	\$921,086	N/A	4	
		\$167,481	\$921,086	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
		\$631,565 \$4,774	\$921,086 \$150,525	N/A RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"H98230-21-1-0093"		\$21,801	\$150,525	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
		\$123,950	\$150,525	N/A		
		-\$12,784	\$473,724	N/A		
"SUBAWARD 210150"		\$7,681	\$473,724	N/A	4	
"193002.361534.03"		\$28,235	\$473,724	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"22341-RS014"		\$450,592	\$473,724	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"#00009974"		-\$38,771	\$16,044,296	RESEARCH AND DEVELOPMENT	\$1,233,831,9	

Endored Assessed Transport	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title RESEARCH AND TECHNOLOGY DEVELOPMENT	Number 12.910	(Optional)	Entity UNIVERSITY OF COLORADO
RESEARCH AND TECHNOLOGY DEVELOPMENT	12.910		SRI INTERNATIONAL
RESEARCH AND TECHNOLOGY DEVELOPMENT	12.910		UNIVERSITY OF CALIFORNIA
RESEARCH AND TECHNOLOGY DEVELOPMENT	12.910		SIEMENS CORPORATION
RESEARCH AND TECHNOLOGY DEVELOPMENT	12.910		UNIVERSITY OF TEXAS AT DALLAS
RESEARCH AND TECHNOLOGY DEVELOPMENT	12.910		GENERAL DYNAMICS MISSION SYSTEMS, INC.
RESEARCH AND TECHNOLOGY DEVELOPMENT	12.910		STSTEINIS, IIVC.
SUPPORT FOR RESPONSIVE OPTICAL MATERIALS RESEARCH	12.RD	2385404UGAD3	AZIMUTH CORPORATION
EDUCATION OUTREACH	12.RD	STIPEND REAP ARMY EDUCATIONAL OUTREACH PROGRAM BF. 1401.008.UGARF. 21.	ROCHESTER INSTITUTE OF TECHNOLOGY
EVALUATION AND DEVELOPMENT OF A MILITARY WORKING D	12.RD	8F.1401.008.0GARF.21.	TDA RESEARCH, INC.
COVALENT GRAFTING OF DURABLE AND OPTICALLY CLEAR A	12.RD	W911QY 19P0013	TDA RESEARCH, INC.
PA-BUILDING A UNIVERSITY-MILITARY PIPELINE FOR PREVENTI	12.RD	SP00014863	
FA-BOILDING A UNIVERSITI-WILLTANT FIFELINE FOR FREVENTI	12.110	ARM212UGA,	
WILL CLIMATE-MEDIATED PHENOLOGICAL SHIFTS AFFECT P	12.RD	EP0165508	TUFTS UNIVERSITY
TREATMENT OF PER- AND POLYFLUOROALKYL SUBSTANCES U	12.RD	W912HQ20C0032	TOT TO CHIVENOTT
COMBUSTION PRODUCT EVALUATION OF FLAME RETARDANT (12.RD	2019-04-UGA-01	PRESCIENT EDGE
MPACTS OF HIGH-LATITUDE MELT DRIVEN BY LARGE-SCAL	12.RD	20ZTBQZ	
CHARACTERIZING MULTISCALE FEEDBACKS BETWEEN FOREST	12.RD	G-27001-02	COLORADO STATE UNIVERSITY
MONITORING AND DIAGNOSIS VIA ELECTRICAL WAVEFORM A 2019 TEEN LEADERSHIP	<i>12.RD</i> 12.RD	<i>\$202001</i> F4199919P0719	AGING AIRCRAFT CONSULTING, LL
TEEN LEADERSHIP CAMP	12.RD	F4199917P1701	
PRODUCTION OF HUMAN AND SIMIAN PLASMODIUM ISOLATES	12.RD	782-111137-1 DTRA CONTRACT	MRIGLOBAL
NOTIFICATION OF TOXIC EXPOSURE (NOTE)	12.RD	HQ0034209PT04-2	PHILIPS RESEARCH
A COMPREHENSIVE EVALUATION OF THE AIR FORCE PERSON SALE OF FOREST PRODUCTS	12.RD 12.U02	FA701419CA031	
PA-BUILDING A UNIVERSITY-MILITARY PIPELINE FOR PREVENTI	12.U02 12.U03	486TIMBER SP00014580	
PA-BUILDING A UNIVERSITY-MILITARY PIPELINE FOR PREVENTI	12.U04	SP00014579	
PA-BUILDING A UNIVERSITY-MILITARY PIPELINE FOR PREVENTI	12.U05	SP00014577	
IPA-BUILDING A UNIVERSITY-MILITARY PIPELINE FOR PREVENTI	12.U06	SP00014576	
PA-BUILDING A UNIVERSITY-MILITARY PIPELINE FOR PREVENTI	12.U07	SP00014906	
PA-BUILDING A UNIVERSITY-MILITARY PIPELINE FOR PREVENTI	12.U08	SP00014575	
		CONTRACT	
ARMY WO#13 DENTAL MATERIALS 2018-2019	12.U09	W91YTZ18P0367	
ADMAN AND HAVA DENITAL MANTEDIALS	42.1140	CONTRACT	
ARMY WO#14 DENTAL MATERIALS	12.U10	W91YTZ19P0344 CONTRACT	
ARMY WO#15 DENTAL MATERIALS	12.U11	W91YTZ20P0197	
MACHINE LEARNING FOR DATA SCIENCE	12.U12	H98230-19-P-0823	
THEORETICAL FOUNDATIONS FOR MACHINE LEARNING	12.U13	H98230-19-P-0820	
CORE LAB & SERVICES CONTRACT	12.U14	36C24E19D0005	
CORE LAB & SERVICES CONTRACT	12.U15	ORDER NO 36C24E20N0026	
CODE LAD & CEDVICES CONTRACT	12.1146	ORDER NO.	
CORE LAB & SERVICES CONTRACT	12.U16	36C24E20N0025	
UNITED STATES AIR FORCE ACADEMY UNITED STATES AIR FORCE ACADEMY	12.U17	IPA 2008	
DINITED STATES AIR FORCE ACADEINT	12.U18	IPA 2006 40-00250, 40-00251, 40-	
MILITARY TUITION ASSISTANCE	12.U19	00252	
TOTAL DEPARTMENT OF DEFENSE			
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT			
HOUSING COUNSELING ASSISTANCE PROGRAM	14.169		

Identifying Number Assigned By Funder	Total Amount		Federal		
Pass-Through	Provided to	Federal	Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
"FY18.920.001"		\$24,529	\$16,044,296	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"206-000114"		\$25,359	\$16,044,296	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"00010318"		\$101,321	\$16,044,296	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"126-003"		\$164,851	\$16,044,296	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"1907638"		\$284,191	\$16,044,296	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"07162AOWLH"		\$307,502	\$16,044,296	RESEARCH AND DEVELOPMENT	\$1,233,831,97
0710271077277	\$5,125,802	\$15,157,696	\$16,044,296	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"2385404UGAD3"	\$3,123,002	-\$2,754	\$1,321,374	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"W911SR-15-2-0001"		\$90	\$1,321,374	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"BF.1401.008.UGARF.21.01"		\$2,374	\$1,321,374	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$14,059	\$1,321,374	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$15,593	\$1,321,374	RESEARCH AND DEVELOPMENT	\$1,233,831,9
#ADA42424101 500:		400	A. 22::	DECEADOU AND DELICITION	de 222
"ARM212UGA, EP0165508"		\$20,882	\$1,321,374	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$34,040	\$1,321,374	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"2019-04-UGA-01"		\$35,852	\$1,321,374	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$46,202	\$1,321,374	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"G-27001-02"		\$65,440	\$1,321,374	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"S202001"		\$75,000	\$1,321,374	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$77,483	\$1,321,374	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$100,516	\$1,321,374	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"782-111137-1"		\$189,813	\$1,321,374	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"DTRA HQ0034209PT04"		\$203,552	\$1,321,374	RESEARCH AND DEVELOPMENT	\$1,233,831,97
2110111Q00012001101		\$443,232	\$1,321,374	RESEARCH AND DEVELOPMENT	\$1,233,831,9
	\$1,838,146	\$1,838,146	\$1,838,146	N/A	¥1,233,031,3
	ψ1,030,140	\$74,645	\$74,645	N/A	
		\$12,330	\$12,330	N/A	
		\$32,952	\$32,952	N/A	
		\$12,569	\$12,569	N/A	,
		\$1,182	\$1,182	N/A	3
		\$1,182	\$1,182	N/A	
		Ţ133,0 4 0	Ţ133,0 4 0	IV/A	,
		\$2,017	\$2,017	N/A	Ş
		\$1,326	\$1,326	N/A	Š
		\$13,148	\$13,148	N/A	9
		\$151	\$151	N/A	
		\$151	\$151	N/A	9
		\$39,975	\$39,975	N/A	Ş
		\$54,924	\$54,924	N/A	9
		\$29,667	\$29,667	N/A	Ş
		\$96,125	\$96,125	N/A	
		\$87,031	\$87,031	N/A	,
		\$2,120,934	\$2,120,934	N/A	ç
		1 / -/			
	\$114,167,177	\$742,932,781			
	\$114,167,177				

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
MANUFACTURED HOME DISPUTE RESOLUTION	14.171		
COVID - 19 - COMMUNITY DEVELOPMENT BLOCK GRANTS/STATE'S PROGRAM AND	14 220	COVID 10	
NON-ENTITLEMENT GRANTS IN HAWAII COMMUNITY DEVELOPMENT BLOCK GRANTS/STATE'S PROGRAM AND NON-	14.228	COVID - 19	
ENTITLEMENT GRANTS IN HAWAII	14.228		
COVID - 19 - EMERGENCY SOLUTIONS GRANT PROGRAM	14.231	COVID - 19	
EMERGENCY SOLUTIONS GRANT PROGRAM	14.231	007.0 13	
SUPPORTIVE HOUSING PROGRAM	14.235		
SHELTER PLUS CARE	14.238		
HOME INVESTMENT PARTNERSHIPS PROGRAM	14.239		
COVID - 19 - HOUSING OPPORTUNITIES FOR PERSONS WITH AIDS	14.241	COVID - 19	
HOUSING OPPORTUNITIES FOR PERSONS WITH AIDS	14.241		
CONTINUUM OF CARE PROGRAM	14.267		
HOUSING TRUST FUND	14.275		
PROJECT RENTAL ASSISTANCE DEMONSTRATION (PRA DEMO) PROGRAM OF			
SECTION 811 SUPPORTIVE HOUSING FOR PERSONS WITH DISABILITIES	14.326		
FAIR HOUSING ASSISTANCE PROGRAM STATE AND LOCAL	14.401		
COVID - 19 - SECTION 8 HOUSING CHOICE VOUCHERS	14.871	COVID - 19	
SECTION 8 HOUSING CHOICE VOUCHERS	14.871	COVID 10	
COVID - 19 - MAINSTREAM VOUCHERS	14.879	COVID - 19	
MAINSTREAM VOUCHERS LEAD-BASED PAINT HAZARD CONTROL IN PRIVATELY-OWNED HOUSING	14.879 14.900		
TOTAL DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	14.900		
DEPARTMENT OF THE INTERIOR			
FISH, WILDLIFE AND PLANT CONSERVATION RESOURCE MANAGEMENT	15.231		UNIVERSITY OF CALIFORNIA, DAVIS
JOINT FIRE SCIENCE PROGRAM	15.232		UNIVERSITY OF OREGON
WATER DESALINATION RESEARCH AND DEVELOPMENT	15.506		
SPORT FISH RESTORATION	15.605		
FISH AND WILDLIFE MANAGEMENT ASSISTANCE	15.608		GULF STATES MARINE FISHERIES COMMISSION
			GULF STATES MARINE FISHERIES
FISH AND WILDLIFE MANAGEMENT ASSISTANCE	15.608		COMMISSION
FISH AND WILDLIFE MANAGEMENT ASSISTANCE	15.608		ALABAAAA DEDARTAATAT OF
WILDLIFE RESTORATION AND BASIC HUNTER EDUCATION	15.611		ALABAMA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
			KENTUCKY DEPARTMENT OF FISH
WILDLIFE RESTORATION AND BASIC HUNTER EDUCATION	15.611		AND WILDLIFE RESOURCES
			KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE
WILDLIFE RESTORATION AND BASIC HUNTER EDUCATION	15.611		FOUNDATION
WILDLIFE RESTORATION AND BASIC HUNTER EDUCATION	15.611		STATE OF OKLAHOMA
WILDLIFE RESTORATION AND BASIC HUNTER EDUCATION	15.611		STATE OF INDIANA
WILDLIFE RESTORATION AND BASIC HUNTER EDUCATION	15.611		STATE OF INDIANA
			ARKANSAS GAME AND FISH
WILDLIFE RESTORATION AND BASIC HUNTER EDUCATION	15.611		COMMISSION
WILDLIFE RESTORATION AND BASIC HUNTER EDUCATION	15.611		
COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION	15.614		GEORGIA SOUTHERN UNIVERSITY RESEARCH AND SERVICE
			FOUNDATION, INC.
COOPERATIVE ENDANGERED SPECIES CONSERVATION FUND	15.615		FUUNDATION, INC.
COOPERATIVE ENDANGERED SPECIES CONSERVATION FUND COOPERATIVE ENDANGERED SPECIES CONSERVATION FUND	15.615 15.615		FOUNDATION, INC.
COOPERATIVE ENDANGERED SPECIES CONSERVATION FUND			FOUNDATION, INC.
COOPERATIVE ENDANGERED SPECIES CONSERVATION FUND CLEAN VESSEL ACT	15.615		roundation, inc.
COOPERATIVE ENDANGERED SPECIES CONSERVATION FUND CLEAN VESSEL ACT SPORTFISHING AND BOATING SAFETY ACT	15.615 15.616		POUNDATION, INC.
COOPERATIVE ENDANGERED SPECIES CONSERVATION FUND CLEAN VESSEL ACT SPORTFISHING AND BOATING SAFETY ACT ENHANCED HUNTER EDUCATION AND SAFETY	15.615 15.616 15.622		POUNDATION, INC.
	15.615 15.616 15.622 15.626		LONGLEAF ALLIANCE
COOPERATIVE ENDANGERED SPECIES CONSERVATION FUND CLEAN VESSEL ACT SPORTFISHING AND BOATING SAFETY ACT ENHANCED HUNTER EDUCATION AND SAFETY MULTISTATE CONSERVATION GRANT	15.615 15.616 15.622 15.626 15.628		

Identifying Number Assigned By Funder	Total Amount		Federal		
Pass-Through	Provided to	Federal	Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
		\$808,385	\$808,385	N/A	
		\$287,420	\$36,237,497	N/A	
	¢24.050.040	¢25.050.077	¢26 227 407	NI/A	
	\$34,058,848	\$35,950,077 \$1,435,163	\$36,237,497 \$5,476,735	N/A N/A	
		\$4,041,572	\$5,476,735	N/A	
		\$1,436,363	\$1,436,363	N/A	
		\$13,756,957	\$13,756,957	N/A	
		\$26,379,827	\$26,379,827	N/A	
		\$1,124,263	\$3,792,558	N/A	
		\$2,668,295	\$3,792,558	N/A	
		\$687,393	\$687,393	N/A	
		\$1,166,838	\$1,166,838	N/A	
		\$795,379	\$795,379	N/A	
		\$82,550	\$82,550	N/A	
		\$4,539,304	\$115,258,603	HOUSING VOUCHER CLUSTER	\$115,879,0
		\$110,719,299	\$115,258,603	HOUSING VOUCHER CLUSTER	\$115,879,0
		\$69,914	\$620,416	HOUSING VOUCHER CLUSTER	\$115,879,0
		\$550,502	\$620,416	HOUSING VOUCHER CLUSTER	\$115,879,0
		\$114,298	\$114,298	N/A	
_	\$34,058,848	\$206,929,532			
"A204249S001"		\$62,752	\$62,752	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"281190C"		\$1,528	\$1,528	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		\$107,864	\$107,864	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		\$7,665,286	\$7,665,286	FISH AND WILDLIFE CLUSTER	\$24,460,7
"FWS8010372019UGA"		-\$3,577	\$91,314	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"30492"		\$8,720	\$91,314	RESEARCH AND DEVELOPMENT	\$1,233,831,9
30.32		\$86,171	\$91,314	N/A	<i>ψ1)200)001)3</i>
"COYOTE ECOLOGY"		-\$9,814	\$17,061,834	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"1600001324"		-\$1,757	\$17,061,834	RESEARCH AND DEVELOPMENT	\$1,233,831,9
NBU 08012019 A103 153"		-\$655	\$17,061,834	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"F19AF00287 W204R1"		\$46,519	\$17,061,834	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"48665"		\$47,000	\$17,061,834	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"39843"		\$124,482	\$17,061,834	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"3767"		\$301,035	\$17,061,834	RESEARCH AND DEVELOPMENT	\$1,233,831,9
3707		\$16,555,024	\$17,061,834	FISH AND WILDLIFE CLUSTER	\$24,460,
		\$4,160,797	\$4,160,797	N/A	<i>\$24,400,</i>
		, , , .	,,,,,,	,	
"63828383-9"		\$28,494	\$666,311	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		\$637,817	\$666,311	N/A	
	\$34,918	\$34,918	\$34,918	N/A	
	\$622,127	\$698,812	\$698,812	N/A	
		1	40.40.400	FIGURAND MAIL BUIEF CLUCTED	¢24.4C0
		\$240,480	\$240,480	FISH AND WILDLIFE CLUSTER	
	\$15,130	\$104,468	\$104,468	RESEARCH AND DEVELOPMENT	\$24,460, \$1,233,831,
"5520190200" "32.2019.02.00"	\$15,130				

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
COASTAL	15.630		
PARTNERS FOR FISH AND WILDLIFE	15.631		
STATE WILDLIFE GRANTS	15.634		SOUTH CAROLINA DEPARTMENT OF NATURAL RESOURCES
07.175.WW.D.175.00.4W70	45.004		SOUTHEASTERN ASSOCIATION OF
STATE WILDLIFE GRANTS STATE WILDLIFE GRANTS	15.634 15.634		FISH AND WILDLIFE
NEOTROPICAL MIGRATORY BIRD CONSERVATION	15.635		
RESEARCH GRANTS (GENERIC)	15.650		GALLUP
RESEARCH GRANTS (GENERIC)	15.650		GALLUP
ENDANGERED SPECIES RECOVERY IMPLEMENTATION	15.657		
ENDANGERED SPECIES RECOVERY IMPLEMENTATION	15.657		
NFWF-USFWS CONSERVATION PARTNERSHIP	15.663		
FISH AND WILDLIFE COORDINATION AND ASSISTANCE	15.664		
FISH AND WILDLIFE COORDINATION AND ASSISTANCE	15.664		
ADAPTIVE SCIENCE	15.670		
			GEORGIA SOUTHERN UNIVERSITY RESEARCH AND SERVICE
COOPERATIVE ECOSYSTEM STUDIES UNITS	15.678		FOUNDATION, INC.
COOPERATIVE ECOSYSTEM STUDIES UNITS	15.678		
MEXICAN WOLF RECOVERY	15.680		KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE
WHITE-NOSE SYNDROME NATIONAL RESPONSE IMPLEMENTATION	15.684		FOUNDATION
WHITE-NOSE SYNDROME NATIONAL RESPONSE IMPLEMENTATION	15.684		
	45.004		KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE
WHITE-NOSE SYNDROME NATIONAL RESPONSE IMPLEMENTATION	15.684		FOUNDATION
ASSISTANCE TO STATE WATER RESOURCES RESEARCH INSTITUTES	15.805		GEORGIA SOUTHERN UNIVERSITY RESEARCH AND SERVICE FOUNDATION, INC.
ASSISTANCE TO STATE WATER RESOURCES RESEARCH INSTITUTES	15.805		TOUNDATION, INC.
EARTHQUAKE HAZARDS PROGRAM ASSISTANCE	15.807		
			GEORGIA SOUTHERN UNIVERSITY RESEARCH AND SERVICE
U.S. GEOLOGICAL SURVEY RESEARCH AND DATA COLLECTION	15.808		FOUNDATION, INC.
U.S. GEOLOGICAL SURVEY RESEARCH AND DATA COLLECTION	15.808		
NATIONAL COOPERATIVE GEOLOGIC MAPPING	15.810		
COOPERATIVE RESEARCH UNITS	15.812		
NATIONAL LAND REMOTE SENSING EDUCATION OUTREACH AND	45.045		
RESEARCH	15.815 15.820		AMERICAVIEW OKLAHOMA STATE UNIVERSITY
NATIONAL AND REGIONAL CLIMATE ADAPTATION SCIENCE CENTERS	15.820		OKLAHOWA STATE UNIVERSITY
HISTORIC PRESERVATION FUND GRANTS-IN-AID HISTORIC PRESERVATION FUND GRANTS-IN-AID	15.904		
OUTDOOR RECREATION ACQUISITION, DEVELOPMENT AND PLANNING	15.916		
NATIVE AMERICAN GRAVES PROTECTION AND REPATRIATION ACT	15.922		
VALIVE AMERICAN GRAVES PROTECTION AND REPARTMENTON ACT			GEORGIA SOUTHERN UNIVERSITY RESEARCH AND SERVICE
AMERICAN BATTLEFIELD PROTECTION	15.926		FOUNDATION, INC. GEORGIA SOUTHERN UNIVERSITY
COOPERATIVE RESEARCH AND TRAINING PROGRAMS RESOURCES OF THE NATIONAL PARK SYSTEM	15.945		RESEARCH AND SERVICE FOUNDATION, INC.
COOPERATIVE RESEARCH AND TRAINING PROGRAMS RESOURCES OF THE NATIONAL PARK SYSTEM	15.045		
NATIONAL PARK SYSTEM EMERGENCY SUPPLEMENTAL HISTORIC PRESERVATION FUND	15.945 15.957		
DIAGNOSTIC, FIELD AND TRAINING ASSISTANCE FOR WILD TOTAL DEPARTMENT OF THE INTERIOR	15.957 15.RD	F15PX01848	
DEPARTMENT OF JUSTICE			
SEXUAL ASSAULT SERVICES FORMULA PROGRAM	16.017		

Assigned By Funder Pass-Through	Total Amount Provided to	Federal	Federal Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
y	Cara recorptions	\$19,584	\$45,345	N/A	
		\$11,425	\$11,425	N/A	
"SCDNRFY2020025"		\$580	\$1,631,683	RESEARCH AND DEVELOPMENT	\$1,233,831,9
SE-U2-F17AP00752-GA"		\$33,387	\$1,631,683	N/A	
		\$1,597,716	\$1,631,683	N/A	
		\$2,317	\$2,317	N/A	
"D17PC00002"		\$45,864	\$240,923	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"HR001119C0135-001"		\$195,059	\$240,923	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		\$16,717	\$48,683	N/A	
		\$31,966	\$48,683	RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$1,420	\$1,420	N/A	
		\$4,483	\$76,208	RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$71,725	\$76,208	N/A	
		\$8,652	\$8,652	N/A	
"63828383-10"		\$49,637	\$117,273	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		\$67,636	\$117,273	RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$50,966	\$50,966	RESEARCH AND DEVELOPMENT	\$1,233,831,
"0.105.10.05570.1"		445.000	444450	255512611411225115120415115	44 000 004
"0406.19.066731"		\$16,388	\$111,158	RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$39,261	\$111,158	N/A	
"F20AP10196-00"		\$55,509	\$111,158	N/A	
"63828383-12"		\$11,213	\$104,297	RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$93,084	\$104,297	RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$98,299	\$98,299	RESEARCH AND DEVELOPMENT	\$1,233,831,
"63828383-18"		\$15,634	\$254,406	RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$238,772	\$254,406	RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$12,660	\$12,660	RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$243,743	\$243,743	RESEARCH AND DEVELOPMENT	\$1,233,831,
"AV18-GA-01"	\$2,026	\$23,466	\$23,466	RESEARCH AND DEVELOPMENT	\$1,233,831,
"2-561570.UGA"		\$112,353	\$112,353	RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$347	\$748,119	RESEARCH AND DEVELOPMENT	\$1,233,831,
	\$93,564	\$747,772	\$748,119	N/A	
	\$818,064	\$2,725,752	\$2,725,752	N/A	
		\$42,705	\$42,705	RESEARCH AND DEVELOPMENT	\$1,233,831,
"63828383-30"		\$69,069	\$69,069	RESEARCH AND DEVELOPMENT	\$1,233,831,
03020303 30			705,003		Ψ±,233,031,.
"63828383-13"		\$10,907	\$644,485	N/A	
		\$633,578	\$644,485	RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$818,742	\$818,742	N/A	
		\$16,015	\$16,015	RESEARCH AND DEVELOPMENT	\$1,233,831,
	\$1,585,829	\$39,156,528			
	\$597,327	\$643,327	\$643,327	N/A	

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
OVW RESEARCH AND EVALUATION PROGRAM	16.026		
COVID. 40. CODOMAVIBUS EMERCENCYCURDI EMENTAL FUNDING DROCDAM	46.024	COVIID 40	
COVID - 19 - CORONAVIRUS EMERGENCY SUPPLEMENTAL FUNDING PROGRAM COMMUNITY-BASED VIOLENCE PREVENTION PROGRAM	16.034 16.123	COVID - 19	
SERVICES FOR TRAFFICKING VICTIMS	16.123		
GRANTS TO REDUCE DOMESTIC VIOLENCE, DATING VIOLENCE, SEXUAL ASSAULT,	10.320		
AND STALKING ON CAMPUS	16.525		
ENHANCED TRAINING AND SERVICES TO END VIOLENCE AND ABUSE OF WOMEN	10.525		
LATER IN LIFE	16.528		
JUVENILE JUSTICE AND DELINQUENCY PREVENTION	16.540		
MISSING CHILDREN'S ASSISTANCE	16.543		
TITLE V DELINQUENCY PREVENTION PROGRAM	16.548		
STATE JUSTICE STATISTICS PROGRAM FOR STATISTICAL ANALYSIS CENTERS	16.550		
NATIONAL INSTITUTE OF JUSTICE RESEARCH, EVALUATION, AND			
DEVELOPMENT PROJECT GRANTS	16.560		APPLIED RESEARCH SOLUTIONS
NATIONAL INSTITUTE OF JUSTICE RESEARCH, EVALUATION, AND			
DEVELOPMENT PROJECT GRANTS	16.560		WESTED
NATIONAL INSTITUTE OF JUSTICE RESEARCH, EVALUATION, AND			
DEVELOPMENT PROJECT GRANTS	16.560		URBAN INSTITUTE
NATIONAL INSTITUTE OF JUSTICE RESEARCH, EVALUATION, AND			RUTGERS, THE STATE UNIVERSITY
DEVELOPMENT PROJECT GRANTS	16.560		OF NEW JERSEY
NATIONAL INSTITUTE OF INSTICE DESEABOUT EVALUATION AND			CRIMANAL INVESTIGATIONS AND
NATIONAL INSTITUTE OF JUSTICE RESEARCH, EVALUATION, AND DEVELOPMENT PROJECT GRANTS	16.500		CRIMINAL INVESTIGATIONS AND
NATIONAL INSTITUTE OF JUSTICE RESEARCH, EVALUATION, AND	16.560		NETWORK ANALYSIS CENTER (CINA
DEVELOPMENT PROJECT GRANTS	16.560		RTI INTERNATIONAL
NATIONAL INSTITUTE OF JUSTICE RESEARCH, EVALUATION, AND	10.500		KITINTERNATIONAL
DEVELOPMENT PROJECT GRANTS	16.560		GEORGE MASON UNIVERSITY
NATIONAL INSTITUTE OF JUSTICE RESEARCH, EVALUATION, AND DEVELOPMENT	20.500		
PROJECT GRANTS	16.560		
NATIONAL INSTITUTE OF JUSTICE RESEARCH, EVALUATION, AND DEVELOPMENT			
PROJECT GRANTS	16.560		
CRIME VICTIM ASSISTANCE	16.575		
CRIME VICTIM COMPENSATION	16.576		
CRIME VICTIM ASSISTANCE/DISCRETIONARY GRANTS	16.582		EQUAL JUSTICE WORKS
CRIME VICTIM ASSISTANCE/DISCRETIONARY GRANTS	16.582		
DRUG COURT DISCRETIONARY GRANT PROGRAM	16.585		
COVID - 19 - VIOLENCE AGAINST WOMEN FORMULA GRANTS	16.588	COVID - 19	
VIOLENCE AGAINST WOMEN FORMULA GRANTS	16.588		
GRANTS TO ENCOURAGE ARREST POLICIES AND ENFORCEMENT OF PROTECTION			
ORDERS PROGRAM	16.590		
RESIDENTIAL SUBSTANCE ABUSE TREATMENT FOR STATE PRISONERS	16.593		
CORRECTIONS TRAINING AND STAFF DEVELOPMENT	16.601		
STATE CRIMINAL ALIEN ASSISTANCE PROGRAM	16.606		
BULLETPROOF VEST PARTNERSHIP PROGRAM PROJECT SAFE NEIGHBORHOODS	16.607 16.609		
PROJECT SAFE NEIGHBORHOODS PUBLIC SAFETY PARTNERSHIP AND COMMUNITY POLICING GRANTS	16.710		
JUVENILE MENTORING PROGRAM	16.710		NATIONAL 4-H COUNCIL
JUVENILE MENTORING PROGRAM	16.726		WATIONAL 4-II COUNCIL
SPECIAL DATA COLLECTIONS AND STATISTICAL STUDIES	16.734		
EDWARD BYRNE MEMORIAL JUSTICE ASSISTANCE GRANT PROGRAM	16.738		
EDWARD BYRNE MEMORIAL JUSTICE ASSISTANCE GRANT PROGRAM	16.738		
DNA BACKLOG REDUCTION PROGRAM	16.741		
PAUL COVERDELL FORENSIC SCIENCES IMPROVEMENT GRANT PROGRAM CRIMINAL AND JUVENILE JUSTICE AND MENTAL HEALTH COLLABORATION	16.742		
PROGRAM	16.745		FULTON COUNTY
CRIMINAL AND JUVENILE JUSTICE AND MENTAL HEALTH COLLABORATION			
PROGRAM	16.745		FORSYTH COUNTY
EDWARD BYRNE MEMORIAL COMPETITIVE GRANT PROGRAM	16.751		
SECOND CHANCE ACT REENTRY INITIATIVE	16.812		
JOHN R. JUSTICE PROSECUTORS AND DEFENDERS INCENTIVE ACT	16.816		
SMART PROSECUTION INITIATIVE	16.825		

Assigned By Funder	Total Amount		Federal		
Pass-Through	Provided to	Federal	Program	Cluster	Cluster
Entity	Sub-Recipients \$20,341	Expenditures	Total	Name	<i>Total</i> \$1,233,831
	\$20,341	\$105,832	\$105,832	RESEARCH AND DEVELOPMENT	\$1,255,651
		\$4,160	\$4,160	N/A	
	\$54,384	\$57,310	\$57,310	N/A	
	\$294,347	\$416,106	\$416,106	N/A	
		\$210,564	\$210,564	N/A	
		\$14,103	\$14,103	N/A	
	\$157,948	\$305,644	\$305,644	N/A	
	7 = 2.7,2 .0	\$475,460	\$475,460	N/A	
	\$1,800	\$7,301	\$7,301	N/A	
		\$123,222	\$123,222	N/A	
""		4	4		4
"CON004258"		\$84	\$550,211	RESEARCH AND DEVELOPMENT	\$1,233,831
"CON006958"		\$1,550	\$550,211	N/A	
"PRE-AUTH. LTR"		\$6,880	\$550,211	RESEARCH AND DEVELOPMENT	\$1,233,831
"CON013345"		\$14,444	\$550,211	RESEARCH AND DEVELOPMENT	\$1,233,831
CON013343		717,777	<i>3330,211</i>	RESEARCH AND DEVELOT WENT	71,233,031
"CON012048"		\$18,784	\$550,211	RESEARCH AND DEVELOPMENT	\$1,233,831
"560686338"		\$21,562	\$550,211	RESEARCH AND DEVELOPMENT	\$1,233,831
"CON014612"		\$28,786	\$550,211	RESEARCH AND DEVELOPMENT	\$1,233,831
CON014012		720,700	<i>\$330,211</i>	RESEARCH AND DEVELOT WENT	71,233,031
		\$31,843	\$550,211	N/A	
	\$6,333	\$426,278	\$550,211	RESEARCH AND DEVELOPMENT	\$1,233,83
	\$61,411,936	\$75,976,293	\$75,976,293	N/A	
"2018CVJC"		\$5,406,443	\$5,406,443	N/A RESEARCH AND DEVELOPMENT	\$1,233,831
2018CVJC	\$338,750	<i>\$11,432</i> \$482,118	<i>\$493,550</i> \$493,550	N/A	\$1,233,031
	\$338,730	\$462,807	\$462,807	N/A	
	402 1,070	\$129,182	\$4,601,584	N/A	
	\$3,374,389	\$4,472,402	\$4,601,584	N/A	
		\$12,573	\$12,573	N/A	
	\$85,256	\$492,274	\$492,274	N/A	
		\$15,200	\$15,200	N/A	
		\$1,847,193	\$1,847,193	N/A	
	\$11,412	\$11,412	\$11,412	N/A	
	\$424,336	\$530,503	\$530,503	N/A	
2040 EV 0005		\$408,180	\$408,180	N/A	
"2018-JU-FX-0005"	Ć0 F1F	\$22,823	\$112,171	N/A	\$1,233,83
	\$9,515	\$89,348	\$112,171	RESEARCH AND DEVELOPMENT N/A	\$1,233,03
		\$18,322 -\$189	\$18,322 \$5,319,102	RESEARCH AND DEVELOPMENT	\$1,233,83
	\$3,227,428	\$5,319,291	\$5,319,102	N/A	γ±,∠33,63.
	73,221,720	\$1,953,201	\$1,953,201	N/A	
		\$727,391	\$727,391	N/A	
"SCFULRE531267CV"		\$1,762	\$46,438	RESEARCH AND DEVELOPMENT	\$1,233,831
"586000828"		\$44,676	\$46,438	N/A	
		-\$674	-\$674	RESEARCH AND DEVELOPMENT	\$1,233,833
		-\$114,533	-\$114,533	N/A	
		\$51,487	\$51,487	N/A	

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Pass-Inrough Entity
NNOVATIVE RESPONSES TO BEHAVIOR IN THE COMMUNITY: SWIFT, CERTAIN, AND		(Срисналу	
AIR SUPERVISION PROGRAM	16.828		
NATIONAL SEXUAL ASSAULT KIT INITIATIVE	16.833		
BODY WORN CAMERA POLICY AND IMPLEMENTATION	16.835		
BODY WORN CAMERA POLICY AND IMPLEMENTATION	16.835		
COMPREHENSIVE OPIOID, STIMULANT, AND SUBSTANCE ABUSE PROGRAM	16.838		INSTITUTE FOR INTERGOVERNMENTAL RESEARCI
COMPREHENSIVE OPIOID, STIMULANT, AND SUBSTANCE ABUSE PROGRAM	16.838		
STOP SCHOOL VIOLENCE	16.839		RICHMOND COUNTY SCHOOL DISTRICT
TOP SCHOOL VIOLENCE	16.839		DISTRICT
PRIOR AFFECTED YOUTH INITIATIVE	16.842		
QUITABLE SHARING PROGRAM	16.922		
OHS SLOT/ICE OT	16.U20	FS 13401	
BINGMOTF	16.U21	FS11402	
DOLOCDETE OT	16.U22	FS 11404	
DEA OVERTIME	16.U23	29001	
EDERAL OVERTIME AGREEMENTS	16.U24	DOJ AND FBI TASK FORCE AGREEMENTS	
TOTAL DEPARTMENT OF JUSTICE	10.02	101102710112211121110	
DEPARTMENT OF LABOR			
ABOR FORCE STATISTICS	17.002		
COMPENSATION AND WORKING CONDITIONS	17.005		
MPLOYMENT SERVICE/WAGNER-PEYSER FUNDED ACTIVITIES	17.207		
JNEMPLOYMENT INSURANCE	17.225		
COVID - 19 - UNEMPLOYMENT INSURANCE	17.225	COVID - 19	
SENIOR COMMUNITY SERVICE EMPLOYMENT PROGRAM	17.235		
TRADE ADJUSTMENT ASSISTANCE	17.245		NORTHEAST SEORGIA REGIONA
WIOA ADULT PROGRAM	17.258		NORTHEAST GEORGIA REGIONA COMMISSION
WIOA ADULT PROGRAM	17.258		CITY OF COLQUITT
			WEST CENTRAL GEORGIA WORKFORCE DEVELOPMENT
WIOA ADULT PROGRAM	17.258		CORPORATION CENTRAL SAVANNAH RIVER AREA
WIOA ADULT PROGRAM	17.258		REGIONAL COMMISSION
WIOA ADULT PROGRAM	17.258		RIVER VALLEY REGIONAL COMMISSION
W677,202.77.000VIII.	17,1250		NORTHWEST GEORGIA REGIONA
WIOA ADULT PROGRAM	17.258		COMMISSION
WIOA ADULT PROGRAM	17.258		SOUTHERN GEORGIA REGIONAL COMMISSION
WIOA ADULT PROGRAM	17.258		ATLANTA REGIONAL COMMISSIO
WIOA ADULT PROGRAM	17.258		NORTHWEST GEORGIA REGIONA COMMISSION
			NORTHWEST GEORGIA REGIONA
WIOA ADULT PROGRAM	17.258		COMMISSION MIDDLE GEORGIA CONSORTIUM
WIOA ADULT PROGRAM	17.258		INC. NORTHEAST GEORGIA REGIONA
WIOA ADULT PROGRAM	17.258		COMMISSION SOUTHERN GEORGIA REGIONAL
WIOA ADULT PROGRAM	17.258		COMMISSION
VIOA ADULT PROGRAM	17.258		20
	_,50		GEORGIA MOUNTAINS REGIONA
WIOA YOUTH ACTIVITIES	17.259		COMMISSION

Identifying Number Assigned By Funder Pass-Through	Total Amount Provided to	Federal	Federal Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
	ĆE7.054	¢427 722	Ć427 722	21/2	ćo
	\$57,851 \$655,897	\$127,723 \$990,564	\$127,723 \$990,564	N/A N/A	\$0 \$0
	20 33,037	\$30,739	\$759,147	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$728,408	\$759,147	N/A	\$0
"38000_SFY20"		\$53,131	\$525,809	N/A	\$0
	\$451,562	\$472,678	\$525,809	N/A	\$0
"SUBAWARD NO. 34100-1"		\$3,099	\$80,360	N/A	\$0
30BAWAND NO. 34100-1	\$45,000	\$77,261	\$80,360	N/A	\$0
	\$246,799	\$405,895	\$405,895	N/A	\$0
	ΨZ-10,733	\$1,196,989	\$1,196,989	N/A	\$(
		\$11,883	\$11,883	N/A	\$(
		\$15,451	\$15,451	N/A	\$0
		\$27,050	\$27,050	N/A	\$(
		\$282,469	\$282,469	N/A	\$(
		\$262,469	\$282,409	N/A	Ş
		\$333,365	\$333,365	N/A	\$0
_	\$71,797,190	\$106,047,225			
_					
		\$1,533,285	\$1,533,285	N/A	\$0
		\$17,204	\$17,204	N/A	\$0
		\$12,055,130	\$12,055,130	EMPLOYMENT SERVICE CLUSTER	\$16,731,500
		\$2,601,316,139	\$12,050,390,446	N/A	\$0
		\$9,449,074,307	\$12,050,390,446	N/A	\$0
	\$1,451,971	\$1,563,353	\$1,563,353	N/A	\$0
		\$3,774,410	\$3,774,410	N/A	\$0
"35870"		\$6,943	\$21,331,434	WIOA CLUSTER	\$84,663,673
"RCOCQRE531388CV"		\$7,293	\$21,331,434	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"270529166A"		\$94,548	\$21,331,434	WIOA CLUSTER	\$84,663,673
"WIOA1"		¢07.000	¢24 224 424	WIOA CLUCTER	Ć04 CC2 C72
WIOAI		\$97,888	\$21,331,434	WIOA CLUSTER	\$84,663,673
"11-15-16-08-015`"		\$214,708	\$21,331,434	WIOA CLUSTER	\$84,663,673
"01-15-114"		\$262,782	\$21,331,434	WIOA CLUSTER	\$84,663,673
01 10 11 /		Ψ202), 02	ψ21,331, i3 i	77107102037211	<i>\$6.1,666,676</i>
"AA-32361-18-55-A-13 AND					
AA-33224-19-55-A-13 A"		\$266,437	\$21,331,434	WIOA CLUSTER	\$84,663,673
"WD1817.2"		\$268,647	\$21,331,434	WIOA CLUSTER	\$84,663,673
"01-15-108-CA1"		\$287,946	\$21,331,434	WIOA CLUSTER	\$84,663,673
"82717001"		\$296,149	\$21,331,434	WIOA CLUSTER	\$84,663,673
"17 11 10 00 AD"		¢21E 40E	621 221 424	WIOA CLUSTER	¢04 662 672
"17-11-19-09-AD"		\$315,405	\$21,331,434	WIOA CLUSTER	\$84,663,673
"3550A"		\$484,084	\$21,331,434	WIOA CLUSTER	\$84,663,673
"19-06, 19-08"		\$828,261	\$21,331,434	WIOA CLUSTER	\$84,663,673
	\$15,391,247	\$17,900,343	\$21,331,434	WIOA CLUSTER	\$84,663,673
"25762"		¢4.633	624 005 425	WICA CLUCTED	604.602.672
"35762"		\$1,633	\$21,885,427	WIOA CLUSTER	\$84,663,673

Fodour Assessing Agency (Occurry Title	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
WIOA YOUTH ACTIVITIES	17.259		SOUTHERN GEORGIA REGIONAL COMMISSION
WIOA YOUTH ACTIVITIES	17.259		SOUTHERN GEORGIA REGIONAL COMMISSION
WIOA YOUTH ACTIVITIES	17.259		GEORGIA MOUNTAINS REGIONA COMMISSION
WIOA YOUTH ACTIVITIES	17.259		NORTHEAST GEORGIA REGIONA COMMISSION
WIOA YOUTH ACTIVITIES	17.259		MIDDLE GEORGIA CONSORTIUM INC.
			WEST CENTRAL GEORGIA WORKFORCE DEVELOPMENT
WIOA YOUTH ACTIVITIES	17.259		CORPORATION NORTHEAST GEORGIA REGIONA
WIOA YOUTH ACTIVITIES	17.259		COMMISSION NORTHWEST GEORGIA REGIONA
WIOA YOUTH ACTIVITIES	17.259		COMMISSION
IOA YOUTH ACTIVITIES	17.259		
IOA PILOTS, DEMONSTRATIONS, AND RESEARCH PROJECTS	17.261		
1B JOB TRAINING GRANTS	17.268		
ORK OPPORTUNITY TAX CREDIT PROGRAM (WOTC)	17.271		
MPORARY LABOR CERTIFICATION FOR FOREIGN WORKERS	17.273		
WIOA NATIONAL DISLOCATED WORKER GRANTS / WIA NATIONAL	17.274		SOUTHERN GEORGIA REGIONA COMMISSION
EMERGENCY GRANTS WIOA NATIONAL DISLOCATED WORKER GRANTS / WIA NATIONAL	17.277		GEORGIA MOUNTAINS REGION
EMERGENCY GRANTS IVID - 19 - WIOA NATIONAL DISLOCATED WORKER GRANTS / WIA NATIONAL	17.277		COMMISSION
MERGENCY GRANTS IOA NATIONAL DISLOCATED WORKER GRANTS / WIA NATIONAL EMERGENCY	17.277	COVID - 19	
RANTS	17.277		RIVER VALLEY REGIONAL
WIOA DISLOCATED WORKER FORMULA GRANTS	17.278		COMMISSION
WIOA DISLOCATED WORKER FORMULA GRANTS	17.278		SOUTHERN GEORGIA REGIONA COMMISSION
WIOA DISLOCATED WORKER PORIVIOLA GRAINTS	17.276		SOUTHERN GEORGIA REGIONA
WIOA DISLOCATED WORKER FORMULA GRANTS	17.278		COMMISSION THREE RIVERS REGIONAL
WIOA DISLOCATED WORKER FORMULA GRANTS	17.278		COMMISSION MIDDLE GEORGIA CONSORTIUI
WIOA DISLOCATED WORKER FORMULA GRANTS	17.278		INC.
WIOA DISLOCATED WORKER FORMULA GRANTS	17.278		NORTHWESTERN UNIVERSITY
WIOA DISLOCATED WORKER FORMULA GRANTS	17.278		NORTHEAST GEORGIA REGIONA COMMISSION
WIOA DISLOCATED WORKER FORMULA GRANTS	17.278		WEST CENTRAL GEORGIA WORKFORCE DEVELOPMENT CORPORATION
	21,121,0		MIDDLE GEORGIA CONSORTIUI
WIOA DISLOCATED WORKER FORMULA GRANTS OA DISLOCATED WORKER FORMULA GRANTS	<i>17.278</i> 17.278		INC.
OA DISLOCATED WORKER NATIONAL RESERVE DEMONSTRATION GRANTS	17.280		
B CORPS EXPERIMENTAL PROJECTS AND TECHNICAL ASSISTANCE	17.287		
CUPATIONAL SAFETY AND HEALTH SUSAN HARWOOD TRAINING GRANTS	17.502		
CUPATIONAL SAFETY AND HEALTH SUSAN HARWOOD TRAINING GRANTS	17.502		
NSULTATION AGREEMENTS	17.504		
	17.600		
NE HEALTH AND SAFETY GRANTS			
INE HEALTH AND SAFETY GRANTS BS FOR VETERANS STATE GRANTS	17.801		

Identifying Number Assigned By Funder Pass-Through	Total Amount Provided to	Federal	Federal Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
"AA-32361-18-55-A-13 AND		ć2 CE1	ć24 005 42 7	MUCA CLUSTER	¢04.662.672
AA-33224-19-55-A-13 B"		\$3,651	\$21,885,427	WIOA CLUSTER	\$84,663,673
"19-06, 19-07"		\$19,507	\$21,885,427	WIOA CLUSTER	\$84,663,673
,		, ,	, , ,		, , ,
"WIOA YOUTH"		\$36,798	\$21,885,427	WIOA CLUSTER	\$84,663,673
""		4	44. 444-		4
"35997"		\$73,364	\$21,885,427	WIOA CLUSTER	\$84,663,673
"17-11-24-04-OSY"		\$213,681	\$21,885,427	WIOA CLUSTER	\$84,663,673
		7-27,222	7=,550,1=1		7 - 1,0 - 2,0 - 2
"270529166B"		\$221,781	\$21,885,427	WIOA CLUSTER	\$84,663,673
2550v		ć222 4C0	624 005 427	WOA CLUSTED	Ć04 CC2 C72
"3550Y"		\$232,460	\$21,885,427	WIOA CLUSTER	\$84,663,673
"01-15-20-989"		\$539,061	\$21,885,427	WIOA CLUSTER	\$84,663,673
01 10 20 303	\$18,703,849	\$20,543,491	\$21,885,427	WIOA CLUSTER	\$84,663,673
	4-0,: 30,0 :0	\$109,430	\$109,430	N/A	\$0
		\$1,841,239	\$1,841,239	N/A	\$0
		\$660,601	\$660,601	N/A	\$0
		\$266,371	\$266,371	N/A	\$0
		\$14,684	\$14,684	N/A	\$0 \$0
		\$14,004	\$14,064	N/A	\$0
"19-06A"		\$50,270	\$4,706,139	N/A	\$0
13 00/1		φ30)270	<i>ψ 1,7 0 0,1203</i>	.,,	, , , , , , , , , , , , , , , , , , ,
"WIOA NAVIGATOR"		\$58,002	\$4,706,139	N/A	\$0
		\$250,844	\$4,706,139	N/A	\$0
		\$4,347,023	\$4,706,139	N/A	\$0
24 45 46 00 045		ć2.7c0	644 402 242	WOA CHISTER	604 662 672
"31-15-16-08-015"		\$3,769	\$41,482,343	WIOA CLUSTER	\$84,663,673
"AA-32361-18-55-A-13 AND					
AA-33224-19-55-A-13 C"		\$4,265	\$41,482,343	WIOA CLUSTER	\$84,663,673
AA-33224-13-33-A-13 C		74,203	741,402,343	WIOA CLOSIEN	\$84,003,073
"19-06"		\$22,176	\$41,482,343	WIOA CLUSTER	\$84,663,673
		7-2/	7 12 , 122, 12		7 - 1,0 - 2,0 - 2
"STRRC0001146801"		\$28,238	\$41,482,343	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"WIA2019"		\$28,501	\$41,482,343	WIOA CLUSTER	\$84,663,673
"CONTRACT DATED 1 SEPT					
2017"		\$80,119	\$41,482,343	WIOA CLUSTER	\$84,663,673
2550D		6477.760	644 402 242	WOA CHISTER	604 662 672
"3550D"		\$177,768	\$41,482,343	WIOA CLUSTER	\$84,663,673
"581656795"		\$264,979	\$41,482,343	WIOA CLUSTER	\$84,663,673
301030733		7204,373	ψ+1,+02,5+3	Wienteresten	404,003,073
"17-11-19-09-DW"		\$375,033	\$41,482,343	WIOA CLUSTER	\$84,663,673
	\$31,616,423	\$40,497,495	\$41,482,343	WIOA CLUSTER	\$84,663,673
	\$17,924	\$592,773	\$592,773	N/A	\$0
		\$41,915	\$41,915	N/A	\$0
		\$22,569	\$197,424	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$174,855	\$197,424	N/A	\$0
		\$1,302,876	\$1,302,876	N/A	\$0
		\$189,548	\$189,548	N/A	\$0
		\$4,676,370	\$4,676,370	EMPLOYMENT SERVICE CLUSTER	\$16,731,500
	\$67,181,414	\$12,168,632,402			

ACADEMIC EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS 19.009 IREX ACADEMIC EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS 19.009 WORLD LEARNING, INC. ACADEMIC EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS 19.009 WORLD LEARNING, INC. ACADEMIC EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS 19.009 WORLD LEARNING, INC. ACADEMIC EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS 19.009 WORLD LEARNING, INC. ACADEMIC EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS 19.009 IREX INC. ACADEMIC EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS 19.0017 VENTURE WELL EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS 19.0017 VENTURE WELL EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS 19.017 VENTURE WELL EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS - 19.019 IREX VINCISING IN PEOPLE IN THE MIDDLE EAST AND MORTH AFRICA 19.0019 IREX VINCISING IN PEOPLE IN THE MIDDLE EAST AND MORTH AFRICA 19.0019 IREX VINCISING IN PEOPLE IN THE MIDDLE EAST AND MORTH AFRICA 19.0019 AMERICAN UNIVERSITY OF BER ACADEMIC EXCHANGE PROGRAMS 19.421 FHI 360 AMERICAN UNIVERSITY OF BER EXCLASES FOR PROGRAMS - ENGLISH LANGUAGE PROGRAMS 19.421 FHI 360 AMERICAN UNIVERSITY OF BER EXECUTES FOR PROGRAMS 19.501 THE NATIONAL MORTH AFRICA 19.501 THE NATIONAL ACADEMIS OF CONTROL OF THE NATIONAL ACADEMIS OF		Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
ACADEMIC EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS 19.009 IREX ACADEMIC EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS 19.009 WORLD LEARNING, INC. ACADEMIC EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS 19.009 WORLD LEARNING, INC. ACADEMIC EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS 19.009 WORLD LEARNING, INC. ACADEMIC EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS 19.009 WORLD LEARNING, INC. ACADEMIC EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS 19.009 IREX INC. ACADEMIC EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS 19.0017 VENTURE WELL EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS 19.0017 VENTURE WELL EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS 19.017 VENTURE WELL EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS - 19.019 IREX VINCISING IN PEOPLE IN THE MIDDLE EAST AND MORTH AFRICA 19.0019 IREX VINCISING IN PEOPLE IN THE MIDDLE EAST AND MORTH AFRICA 19.0019 IREX VINCISING IN PEOPLE IN THE MIDDLE EAST AND MORTH AFRICA 19.0019 AMERICAN UNIVERSITY OF BER ACADEMIC EXCHANGE PROGRAMS 19.421 FHI 360 AMERICAN UNIVERSITY OF BER EXCLASES FOR PROGRAMS - ENGLISH LANGUAGE PROGRAMS 19.421 FHI 360 AMERICAN UNIVERSITY OF BER EXECUTES FOR PROGRAMS 19.501 THE NATIONAL MORTH AFRICA 19.501 THE NATIONAL ACADEMIS OF CONTROL OF THE NATIONAL ACADEMIS OF	Federal Awarding Agency/Program Title	Number	(Optional)	Entity
ACADEMIC EXCHANGE PROGRAMS - UNDERGRADUATE PROGRAMS 19,009 WORLD LEARNING, INC. ACADEMIC EXCHANGE PROGRAMS - UNDERGRADUATE PROGRAMS 19,009 WORLD LEARNING, INC. ACADEMIC EXCHANGE PROGRAMS - UNDERGRADUATE PROGRAMS 19,009 WORLD LEARNING, INC. ACADEMIC EXCHANGE PROGRAMS - UNDERGRADUATE PROGRAMS 19,009 IREX ACADEMIC EXCHANGE PROGRAMS - UNDERGRADUATE PROGRAMS 19,007 VEYTURE WELL EWINGROMMENTAL AND SCENIFIC PARTINESSINES AND PROGRAMS 19,017 VEYTURE WELL EWINGROMMENTAL AND SCENIFIC PARTINESSINES AND PROGRAMS 19,017 VEYTURE WELL WESTING IN PEOPLE IN THE MIDDLE EAST AND NORTH AFRICA 19,021 IREX UNESTING IN PEOPLE IN THE MIDDLE EAST AND NORTH AFRICA 19,021 FM WESTING IN PEOPLE IN THE MIDDLE EAST AND NORTH AFRICA 19,021 FM S00 ACADEMIC EXCHANGE PROGRAMS - ENGLISH LANGUAGE PROGRAMS 19,421 FM S0 ACADEMIC EXCHANGE PROGRAMS - ENGLISH LANGUAGE PROGRAMS 19,421 FM S0 ACADEMIC EXCHANGE PROGRAMS - ENGLISH LANGUAGE PROGRAMS 19,421 FM S0 ACADEMIC EXCHANGE PROGRAMS - ENGLISH LANGUAGE PROGRAMS 19,421 FM S0 ACADEMIC EXCHANGE PROGRAMS - ENGLISH LANGUAGE PROGRAMS 19,900 AMERICAN UNIVERSITY OF BERR EXECUTES FOR PROGRAMS - ENGLISH LANGUAGE PROGRAMS 19,900 AMERICAN UNIVERSITY OF BERR EXECUTES FOR PROGRAMS - ENGLISH LANGUAGE PROGRAMS 19,900 AMERICAN UNIVERSITY OF BERR EXECUTED AND ADELECTED BODGER SECURITY 19,901 OTAL DEPARTMENT OF STATE EPARTMENT OF TRANSPORTATION CUID - 19 - AIRPORT IMPROVEMENT PROGRAM 20,100 TM FM S0 AMERICAN UNIVERSITY OF BERR WANTON RESEARCH GRANTS 20,100 TM FM S0 AMERICAN UNIVERSITY OF FM S0 AMERICAN	DEPARTMENT OF STATE			
ACADEMIC EXCHANGE PROGRAMS - UNDERGRADUATE PROGRAMS 19,009 WORLD LEARNING, INC. ACADEMIC EXCHANGE PROGRAMS - UNDERGRADUATE PROGRAMS 19,009 WORLD LEARNING, INC. ACADEMIC EXCHANGE PROGRAMS - UNDERGRADUATE PROGRAMS 19,009 WORLD LEARNING, INC. ACADEMIC EXCHANGE PROGRAMS - UNDERGRADUATE PROGRAMS 19,009 IREX ACADEMIC EXCHANGE PROGRAMS - UNDERGRADUATE PROGRAMS 19,007 VEYTURE WELL EWINGROMMENTAL AND SCENIFIC PARTINESSINES AND PROGRAMS 19,017 VEYTURE WELL EWINGROMMENTAL AND SCENIFIC PARTINESSINES AND PROGRAMS 19,017 VEYTURE WELL WESTING IN PEOPLE IN THE MIDDLE EAST AND NORTH AFRICA 19,021 IREX UNESTING IN PEOPLE IN THE MIDDLE EAST AND NORTH AFRICA 19,021 FM WESTING IN PEOPLE IN THE MIDDLE EAST AND NORTH AFRICA 19,021 FM S00 ACADEMIC EXCHANGE PROGRAMS - ENGLISH LANGUAGE PROGRAMS 19,421 FM S0 ACADEMIC EXCHANGE PROGRAMS - ENGLISH LANGUAGE PROGRAMS 19,421 FM S0 ACADEMIC EXCHANGE PROGRAMS - ENGLISH LANGUAGE PROGRAMS 19,421 FM S0 ACADEMIC EXCHANGE PROGRAMS - ENGLISH LANGUAGE PROGRAMS 19,421 FM S0 ACADEMIC EXCHANGE PROGRAMS - ENGLISH LANGUAGE PROGRAMS 19,900 AMERICAN UNIVERSITY OF BERR EXECUTES FOR PROGRAMS - ENGLISH LANGUAGE PROGRAMS 19,900 AMERICAN UNIVERSITY OF BERR EXECUTES FOR PROGRAMS - ENGLISH LANGUAGE PROGRAMS 19,900 AMERICAN UNIVERSITY OF BERR EXECUTED AND ADELECTED BODGER SECURITY 19,901 OTAL DEPARTMENT OF STATE EPARTMENT OF TRANSPORTATION CUID - 19 - AIRPORT IMPROVEMENT PROGRAM 20,100 TM FM S0 AMERICAN UNIVERSITY OF BERR WANTON RESEARCH GRANTS 20,100 TM FM S0 AMERICAN UNIVERSITY OF FM S0 AMERICAN	ACADEMIC EYCHANGE DROGRAMS - LINDERGRADUATE DROGRAMS	10 000		WORLD LEARNING INC
ACADEMIC EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS 19.009 WORLD LEARNING, INC. CADEMIC EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS 19.009 WORLD LEARNING, INC. CADEMIC EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS 19.009 WORLD LEARNING, INC. CADEMIC EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS 19.009 WORLD LEARNING, INC. CADEMIC EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS 19.009 WORLD LEARNING, INC. CADEMIC EXCHANGE PROGRAMS - UNDERGRADIATE PROGRAMS 19.017 VENTUREWELL EXCHANGE PROGRAMS 19.017 OCEAN CONSERVANCY VENTUREWELL EXCHANGE PROGRAMS 19.017 OCEAN CONSERVANCY VENTUREWELL EXCHANGE PROGRAMS 19.019 WESTING PROFILE OF THE MIDDLE EAST AND NORTH APRICA 19.023 WESTING PROFILE OF THE MIDDLE EAST AND NORTH APRICA 19.033 WILLDED PROGRAMS 19.033 WESTING PROFILE OF THE MIDDLE EAST AND NORTH APRICA 19.030 WESTING PROGRAMS 19.421 FHI 360 WESTING WESTING PROGRAMS 19.421 FHI 360 WESTING PROGRAMS 19.421 FHI 360 WESTING PROGRAMS 19.421 FHI 360 WESTING PROGRAMS 19.900 AMERICAN UNIVERSITY OF BEIR CECAUSES PROGRAMS 19.900 WESTING PROGRAMS 19.000 WESTING PROGRAMS				
CADEMIC EXCHANGE PROGRAMS - LUNDERGRADIATE PROGRAMS 19.009 WORLD LEARNING, INC. ACADEMIC EXCHANGE PROGRAMS - LUNDERGRADIATE PROGRAMS 19.009 IREX ACADEMIC EXCHANGE PROGRAMS - LUNDERGRADIATE PROGRAMS 19.007 VENTURE WELL EVANGOMENTAL AND SCENIFIC PARTINESSHIPS AND PROGRAMS 19.017 VENTURE WELL EVANGOMENTAL AND SCENIFIC PARTINESSHIPS AND PROGRAMS 19.017 CEAN CONSERVANCY ITERNATIONAL PROGRAMS 10 COMBAT LUNDAN TRAFFICKING 19.019 WINSTING IN PEOPLE IN THE MIDDLE EAST AND NORTH AFRICA 19.021 IREX LIDBAL THEAT REDOCTION 19.033 BEX LIDBAL THEAT REDOCTION 19.033 ACADEMIC EXCHANGE PROGRAMS - ENGLISH LANGUAGE PROGRAMS 19.040 ACADEMIC EXCHANGE PROGRAMS - ENGLISH LANGUAGE PROGRAMS 19.040 ACADEMIC EXCHANGE PROGRAMS - ENGLISH LANGUAGE PROGRAMS 19.040 MIDDLE EAST PARTINESHIP INITIATIVE 19.500 MIDDLE EAST PARTINESHIP PROGRAM 19.000 PRORT CONTROL AND RELATED BONDER SECURITY 19.901 THE NATIONAL MORE LEATED BONDER SECURITY 19.901 THE NATIONAL MACADEMES 10.501 THE NATIONAL MACADEMES 10.501 SCENCES, ENGINEERING, AND MEDICINE MEDICIN				
ACADEMIC EXCHANGE PROCRAMS - UNDERGRADUATE PROGRAMS 19009 ACADEMIC EXCHANGE PROCRAMS - UNDERGRADUATE PROGRAMS 19009 ENVIRONMENTAL AND SCIENTIFIC PATTWESHIPS AND PROGRAMS 19017 CENTRONMENTAL AND SCIENTIFIC PATTWESHIPS AND PROGRAMS 19017 OCCAN CONSERVANCY ATERNATIONAL PROGRAMS TO COMBAT HUMAN TRAFFICKING 19021 IREX LOBAL-THREAT REDUCTION IREX LOBAL-THREAT REDUCTION ACADEMIC EXCHANGE PROGRAMS - ENGLISH LANGUAGE PROGRAMS 19040 ACADEMIC EXCHANGE PROGRAMS - ENGLISH LANGUAGE PROGRAMS 19.040 ACADEMIC EXCHANGE PROGRAMS - ENGLISH LANGUAGE PROGRAMS 19.421 FH 1360 AMERICAN UNIVERSITY OF BEIR ECCLISS PROPROGRAMS - ENGLISH LANGUAGE PROGRAMS 19.421 FH 1360 AMERICAN UNIVERSITY OF BEIR ECCLISS PROPROGRAMS - ENGLISH LANGUAGE PROGRAMS 19.900 AMERICAN UNIVERSITY OF BEIR ECCLISS PROPROGRAMS - ENGLISH LANGUAGE PROGRAMS 19.900 AMERICAN UNIVERSITY OF BEIR ECCLISS PROPROGRAMS - ENGLISH LANGUAGE PROGRAMS 19.900 AMERICAN UNIVERSITY OF BEIR ECCLISS PROPROGRAMS - ENGLISH LANGUAGE PROGRAMS 19.900 AMERICAN UNIVERSITY OF BEIR ECCLISS PROPROGRAMS - ENGLISH LANGUAGE PROGRAMS 19.900 AMERICAN UNIVERSITY OF BEIR ECCLISS PROPROGRAMS - ENGLISH LANGUAGE PROGRAMS 19.900 AMERICAN UNIVERSITY OF BEIR ECCLISS PROPROGRAMS 19.900 AMERICAN UNIVERSITY OF BEIR THE NATIONAL ACADEMIS OF SCIENCES, INCIDENTS, AND MERCINES THE NATIONAL ACADEMIS OF SCIENCES, INCIDENTS, AND MERCINES HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 AMERICAN UNIVERSITY OF ELONGAMS 19.000 AME				WORLD LEARNING, INC.
ACADEMIC EXCHANGE PROGRAMS - UNDERGRADUSTE PROGRAMS 19.007				MODED LEADNING INC
ENVIRONMENTAL AND SCIENTIFIC PATTMESHIPS AND PROGRAMS 19.017 OCEAN CONSERVANCY ITERNATIONAL PROGRAMS TO COMBAT HUMAN TRAFFICKING 19.021 IREX ITERNATIONAL PROGRAMS TO COMBAT HUMAN TRAFFICKING 19.021 IREX INVESTING PROPRIE IN THE MIDDLE EAST AND NORTH AFRICA 19.021 IREX LOBAL THREAT REDUCTION 19.033 BUILD COLOMACY PROGRAMS 19.042 FINANCY INVESTING CHARACTER PROGRAMS - ENGLISH LANGUAGE PROGRAMS 19.421 FHI 360 MIDDLE EAST PARTMERSHIP INITIATIVE 19.500 AMERICAN UNIVERSITY OF BER ECCALES PO PROGRAMS 19.900 MIDDLE EAST PARTMERSHIP INITIATIVE 19.500 AMERICAN UNIVERSITY OF BER ECCALES PO PROGRAMS 19.900 MIDDLE EAST PARTMERSHIP INITIATIVE 19.901 TOTAL DEPARTMENT OF STATE EPARTMENT OF TRANSPORTATION DVID - 19 - AIRPORT IMPROVEMENT PROGRAM 20.106 COVID - 19 REPORT INIPROVEMENT PROGRAM 20.106 COVID - 19 REPORT INIPROVEMENT PROGRAM 20.106 COVID - 19 REPORT INIPROVEMENT PROGRAM 20.106 THE NATIONAL INSTITUTE OF ARROSPACE AVAITION RESEARCH GRANTS 20.108 BE TRANSPORTATION CENTERS OF EXCELLENCE 20.109 HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 THE NATIONAL ACADEMIES OF SCIENCES, FINONERISMS, AND ENGLISHE AND DEVELOPMENT PROGRAM 20.200 SCIENCES, FINONERISMS, AND ENGLISHE AND DEVELOPMENT PROGRAM 20.200 FINONERS AND SCIENCES FINONERISMS, AND ENGLISHE AND DEVELOPMENT PROGRAM 20.200 FINONERS AND SCIENCES FINONERISMS, AND ENGLISHE AND DEVELOPMENT PROGRAM 20.200 FINONERS AND SCIENCES FINONERISMS, AND ENGLISHE AND ENGLISHED AND ENGLISHE AND ENGLISHED AND ENGLISHED AND ENGL				·
INTERNATIONAL PROGRAMS TO COMBAT HUMAN TRAFFICKING 19.019 INTERNATIONAL PROGRAMS TO COMBAT HUMAN TRAFFICKING 19.019 INTERNATIONAL PROGRAMS TO THE MIDDLE PAST AND NORTH AFRICA 19.021 IDBAIL THERAT TEDULTON 19.033 IDBAIL THE NATIONAL INSTITUTE OF THE NATIONAL ACADEMIS ON SCIENCES, ENGINEEMING, AND MEDICINE 19.033 IDBAIL THE NATIONAL ACADEMIS ON SCIENCES, ENGINEEMING, AND MEDICINE 19.033 IDBAIL THE NATIONAL ACADEMIS ON SCIENCES, ENGINEEMING, AND MEDICINE 19.033 IDBAIL THE NATIONAL ACADEMIS ON SCIENCES, ENGINEEMING, AND MEDICINE 19.033 IDBAIL THE NATIONAL ACADEMIS ON SCIENCES, ENGINEEMING, AND MEDICINE 19.033 IDBAIL THE NATIONAL ACADEMIS ON SCIENCES, ENGINEEMING, AND MEDICINE 19.033 IDBAIL THE NATIONAL ACADEMIS ON SCIENCES, ENGINEEMING, AND MEDICINE 19.033 IDBAIL THE NATIONAL ACADEMIS ON SCIENCES, ENGINEEMING, AND MEDICINE 19.033 IDBAIL THE NATIONAL ACADEMIS ON SCIENCES, ENGINEEMING, AND MEDICINE 19.033 IDBAIL THE NATIONAL ACADEMIS ON SCIENCES, ENGINEEMING, AND MEDICINE 19.033 IDBAIL THE NATIONAL ACADEMIS ON SCIENCES, ENGINEEMING, AND MEDICINE 19.033 IDBAIL THE NATIONAL ACADEMIS ON SCIENCES, ENGINEEMING, AND MEDICINE 19.033 IDBAIL THE NATIONAL ACADEMIS ON SCIENCES, ENGINEEMING, AND MEDICINE 19.033 IDBAIL THE NATIONAL ACADEMIS ON SCIENCES, ENGINEEMING, AND MEDICINE 19.033 IDBAIL THE NATIONAL ACADEMIS ON SCIENCES, ENGINEEMING, AND MEDICINE 19.033 IDBAIL THE NATIONAL ACADEMIS ON SCIENCES, ENGINEEMING				
TIERNATIONAL PROCRAMS TO COMBAT HUMAN TRAFFICKING INVESTING IN PEOPLE IN THE MIDDLE EAST AND NORTH AFRICA INVESTING IN PEOPLE IN THE MIDDLE EAST AND NORTH AFRICA IN 1903 UBUIC DIPLOMACY PROGRAMS UBUIC DIPLOMACY PROGRAMS UBUIC DIPLOMACY PROGRAMS IN 1900 MIDDLE EAST PARTNERSHIP INITIATIVE IP 500 AMERICAN UNIVERSITY OF BEIR MIDDLE EAST PARTNERSHIP INITIATIVE IP 500 AMERICAN UNIVERSITY OF BEIR MIDDLE EAST PARTNERSHIP INITIATIVE IP 500 AMERICAN UNIVERSITY OF BEIR MIDDLE EAST PARTNERSHIP INITIATIVE IP 500 AMERICAN UNIVERSITY OF BEIR MEDICAL EAST PARTNERSHIP INITIATIVE IP 500 AMERICAN UNIVERSITY OF BEIR MEDICAL EAST PARTNERSHIP INITIATIVE IP 500 AMERICAN UNIVERSITY OF BEIR MEDICAL EAST PARTNERSHIP INITIATIVE IP 500 AMERICAN UNIVERSITY OF BEIR MEDICAL EAST PARTNERSHIP INITIATIVE IP 500 AMERICAN UNIVERSITY OF BEIR MEDICAL EAST PARTNERSHIP INITIATIVE IP 500 AMERICAN UNIVERSITY OF BEIR MEDICAL EAST PARTNERSHIP INITIATIVE IP 500 AMERICAN UNIVERSITY OF BEIR MERCARAMS OF USING UNIVERSITY OF BEIR MERCARAMS OF USING UNIVERSITY OF BEIR AMERICAN UNIVERSITY OF USING UNIVERSITY OF UNIVERSITY OF UNIVERSITY OF MEDICAL EAST UNIVERSITY HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 AMEDICAL EAST UNIVERSITY HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 AMEDICAL EAST UNIVERSITY HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 AMEDICAL EAST UNIVERSITY HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 AMEDICAL EAST UNIVERSITY HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 AMEDICAL EAST UNIVERSITY HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 AMEDICAL EAST UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION 20.205 AMEDICAL EAST UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION 20.205 AMEDICAL EAST EAST UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION 20.205 AMEDICAL EAST EAST EAST AND HOW THE PLANS AND LONDERSTRUCTION 40.205 AMEDICAL EAST EAST EAST EAST EAST EAST EAST EAST				
INVESTING IN PEOPLE IN THE MIDDLE EAST AND NORTH AFRICA LOBAL THREAT REDUCTION LOBAL THREAT REDUCTION ACADEMIC EXCHANGE PROGRAMS ACADEMIC EXCHANGE PROGRAMS 19.00 AMERICAN UNIVERSITY OF BEIR EECA/SES PO PROGRAMS 19.900 AMERICAN UNIVERSITY OF BEIR EECA/SES PO PROGRAMS 19.900 AMERICAN UNIVERSITY OF BEIR EECA/SES PO PROGRAMS 19.900 AMERICAN UNIVERSITY OF BEIR EECA/SES PO PROGRAMS 19.901 TOTAL DEPARTMENT OF STATE EPARTMENT OF STATE EPARTMENT OF TRANSPORTATION DUID - 19 - AIRPORT IMPROVEMENT PROGRAM 20.106 AUADTON RESEARCH GRANTS VIATION RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY RESEA				OCEAN CONSERVANCY
LIGBAL TREAT REDUCTION UBUSIC DIPLOMACY PROGRAMS ACADEMIC EXCHANGE PROGRAMS - ENGLISH LANGUAGE PROGRAMS ACADEMIC EXCHANGE PROGRAMS - ENGLISH LANGUAGE PROGRAMS MIDDLE EAST PARTNERSHIP INITIATIVE 19.500 AMERICAN UNIVERSITY OF BEIR EECAL'SES PO PROGRAMS 19.900 PROGRES PO PROGRAMS REPORT CONTROL LAND RELATED BORDER SECURITY 19.901 OTAL DEPARTMENT OF STATE EPARTMENT OF TRANSPORTATION OVID - 19 - AIRPORT IMPROVEMENT PROGRAM 20.106 COVID - 19 REPORT IMPROVEMENT PROGRAM 20.106 AVIATION RESEARCH GRANTS 20.108 ALIANDAM RESEARCH GRANTS 20.108 ITHE NATIONAL INSTITUTE OF SCIENCE VIATION RESEARCH AND DEVELOPMENT PROGRAM 20.200 THE NATIONAL ACADEMISO ON SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOR DIAMACH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOR DIAMACH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOR DIAMACH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOR DIAMACH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOR DIAMACH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOR DIAMACH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 GRANDATION HIGHWAY PLANNING AND CONSTRUCT				
UBLIC DIPLOMACY PROGRAMS ACADEMIC EXCHANGE PROGRAMS - ENGLISH LANGUAGE PROGRAMS 19.421 FHI 360 AMERICAN UNIVERSITY OF BEIR EECALSES PO PROGRAMS 19.900 TOTAL DEPARTMENT OF STATE EPARTMENT OF TRANSPORTATION DUD - 19 - AIRPORT IMPROVEMENT PROGRAM 20.106 AVAITON RESEARCH GRANTS 20.108 AEROSPACE VIATION RESEARCH GRANTS 20.108 IN TRANSPORTATION CENTERS OF EXCELLENCE 20.109 THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY PLANNING AND CONSTRUCTION 20.205 MEDICINE HIGHWAY PLANNING AND CO				IREX
ACADEMIC EXCHANGE PROGRAMS - ENGLISH LANGUAGE PROGRAMS 19.421 F.H. 360 AMERICAN UNIVERSITY OF BEIR BECA/ESF PD PROGRAMS 19.900 PROBIT CONTROL AND RELETED BORDER SECURITY 19.901 OTAL DEPARTMENT OF STATE EPARTMENT OF TRANSPORTATION OVID - 19 - AIRPORT IMPROVEMENT PROGRAM 20.106 COVID - 19 IRPORT IMPROVEMENT PROGRAMS 20.106 AVAITION RESEARCH GRANTS 20.108 IR TRANSPORTATION CENTERS OF EXCELLENCE 20.109 THE NATIONAL INSTITUTE OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 THE NATIONAL ACADEMIS OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 THE NATIONAL ACADEMIS OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 THE NATIONAL ACADEMIS OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 THE NATIONAL ACADEMIS OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 THE NATIONAL ACADEMIS OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 THE NATIONAL ACADEMIS OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 THE NATIONAL ACADEMIS OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 THE NATIONAL ACADEMIS OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 OKLAHOMA, STATE UNIVERSITY THE NATIONAL ACADEMIS OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 U	LOBAL THREAT REDUCTION	19.033		
MIDDLE EAST PARTNERSHIP INITIATIVE EECA/ESF PD PROGRAMS 19 900 POTAL DEPARTMENT OF STATE EPARTMENT OF TRANSPORTATION OUID - 19 - AIRPORT IMPROVEMENT PROGRAM 20 106 AVAITION RESEARCH GRANTS VIAITION RESEARCH GRANTS VIAITION RESEARCH GRANTS VIAITION RESEARCH AND DEVELOPMENT PROGRAM HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM ARROSPACE ARROSPACE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM ARROSPACE ARROSPACE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM ARROSPACE ARROSPACE ARROSPACE ARROSPACE ARROSPACE BOUNDATION THE NATIONAL ACADEMIES OI SCIENCES, BEGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM ARROSPACE ARROSPACE ARROSPACE ARROSPACE DIVIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION ARROSPACE DAVID ARROSPACE LIVINGENSTY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION ARROSPACE ARRO	UBLIC DIPLOMACY PROGRAMS	19.040		
RECAJES PD PROGRAMS APORT CONTROL AND RELATED BORDER SECURITY 19.901 TAIL DEPARTMENT OF STATE EPARTMENT OF TRANSPORTATION OVID - 19 - AIRPORT IMPROVEMENT PROGRAM 20.106 AVAITON RESEARCH GRANTS 20.108 ARROSPACE VIATION RESEARCH GRANTS 20.109 THE NATIONAL INSTITUTE OF SCIENCE, BEGINNER INC. VIATION RESEARCH GRANTS 20.109 THE NATIONAL ACADEMIES OF SCIENCE, SINGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 THE NATIONAL ACADEMIES OF SCIENCE, SINGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 THE NATIONAL ACADEMIES OF SCIENCE, SINGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 THE NATIONAL ACADEMIES OF SCIENCE, SINGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 THE NATIONAL ACADEMIES OF SCIENCE, SINGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 THE NATIONAL ACADEMIES OF SCIENCE, SINGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 THE NATIONAL ACADEMIES OF SCIENCE, SINGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 THE NATIONAL ACADEMIES OF SCIENCE, SINGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 THE NATIONAL ACADEMIES OF SCIENCE, SINGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 THE NATIONAL ACADEMIES OF SCIENCE, SINGINEERING, AND MEDICINE HIGHWAY PLANNING AND CONSTRUCTION 20.205 CREARE, LLC HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH POUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA UNIVERSITY OF FLORIDA UNIVER	ACADEMIC EXCHANGE PROGRAMS - ENGLISH LANGUAGE PROGRAMS	19.421		FHI 360
RECAJES PD PROGRAMS APORT CONTROL AND RELATED BORDER SECURITY 19.901 PARTMENT OF TRANSPORTATION DUID - 19 - AIRPORT IMPROVEMENT PROGRAM 20.106 AVAITION RESEARCH GRANTS 20.108 ARROSPACE VIATION RESEARCH GRANTS 20.109 ITHE NATIONAL INSTITUTE OF ALERSANCH AND DEVELOPMENT PROGRAM 20.200 HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION RESEARCH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION RESEARCH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION RESEARCH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION RESEARCH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH AND DEVELOPMENT PROGRAM 20.205 RESEARCH AND DEVELOPMENT PROGRAM 20.205 RESEARCH AND DEVELOPMENT PROGRAM 20.205 RESEARCH POUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH POUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH POUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 LIVIVESSITY OF FLORIDA LIVIVESSITY OF FLORIDA LIVIVESSITY OF FLORIDA LIVIVESSITY OF FLORIDA LIVIVESS				
EPARTMENT OF TRANSPORTATION OVID - 19 - AIRPORT IMPROVEMENT PROGRAM OVID - 19 - AIRPORT IMPROVEMENT PROGRAM OVID - 19 - AIRPORT IMPROVEMENT PROGRAM AVAIATION RESEARCH GRANTS AVAIATION RESEARCH GRANTS AVAIATION RESEARCH GRANTS OVID - 19 - THE NATIONAL INSTITUTE OF ARROYSPACE VIATION RESEARCH GRANTS OVID - 19 - THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM OVID - 19 - THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM OVID - 10 - THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM OVID - THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM OVID - THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM OVID - THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM OVID - THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM OVID - THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM OVID - THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY PLANNING AND CONSTRUCTION OVID DOMINION UNIVERSITY OF FLORIDA OLD DOMINION UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION OVID DOMINION UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION OVID DOMINION UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION OVIN PRESEARCH OUNDATION HIGHWAY PLANNING AND CONSTRUCTION OVIN PRESEARCH OUNDATION HIGHWAY PLANNING AND CONSTRUCTION OVIN PRESEARCH OUNDATION OVIN PRESEARCH				AMERICAN UNIVERSITY OF BEIRU
PEPARTMENT OF TRANSPORTATION OVID - 19 - AIRPORT IMPROVEMENT PROGRAM 20.106 THE NATIONAL INSTITUTE OF AVIATION RESEARCH GRANTS VIATION RESEARCH GRANTS 20.108 ARROSPACE VIATION RESEARCH GRANTS 20.108 ITHE NATIONAL ACADEMIES ON SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION RESEARCH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION RESEARCH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION RESEARCH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION THE NATIONAL ACADEMIES ON SCIENCES, ENGINEERING, AND MEDICINE RESEARCH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION THE NATIONAL ACADEMIES ON SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION THE NATIONAL ACADEMIES ON SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY PESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION HIGHWAY PESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION HIGHWAY PESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION THE NATIONAL ACADEMIES ON SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA HIGHWAY PLANN	EECA/ESF PD PROGRAMS	19.900		
INFORT IMPROVEMENT PROGRAM 20.106 OVID - 19 - AIRPORT IMPROVEMENT PROGRAM 20.106 THE NATIONAL INSTITUTE OF AVAITION RESEARCH GRANTS 20.108 AVAITION RESEARCH GRANTS 20.108 THE NATIONAL INSTITUTE OF AVAITION RESEARCH GRANTS 20.108 THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE RESEARCH AND SERVICE FOUNDATION HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 RESEARCH AND SERVICE FOUNDATION HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 RESEARCH AND SERVICE FOUNDATION HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 RESEARCH AND SERVICE FOUNDATION HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 RESIDENCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY PESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUC	EXPORT CONTROL AND RELATED BORDER SECURITY	19.901		
OVID - 19 - AIRPORT IMPROVEMENT PROGRAM 20.106 AVIATION RESEARCH GRANTS AVIATION RESEARCH GRANTS VIATION RESEARCH GRANTS VIATION RESEARCH GRANTS 20.108 THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AVIATION RESEARCH AND DEVELOPMENT PROGRAM HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AVIATION RESEARCH AN	OTAL DEPARTMENT OF STATE			
OVID - 19 - AIRPORT IMPROVEMENT PROGRAM 20.106 AVIATION RESEARCH GRANTS AVIATION RESEARCH GRANTS VIATION RESEARCH GRANTS VIATION RESEARCH GRANTS 20.108 THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AVIATION RESEARCH AND DEVELOPMENT PROGRAM HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AVIATION RESEARCH AN				
IRPORT IMPROVEMENT PROGRAM AVIATION RESEARCH GRANTS AVIATION RESEARCH GRANTS 20.108 ARENOSPACE VIATION RESEARCH GRANTS 20.109 THE NATIONAL ACADEMIES OI SCIENCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY PLANNING AND CONSTRUCTION AUGUS CREARE, LIC AUGUS CREARE,	EPARTMENT OF TRANSPORTATION			
IRPORT IMPROVEMENT PROGRAM AVIATION RESEARCH GRANTS AVIATION RESEARCH GRANTS 20.108 ARENOSPACE VIATION RESEARCH GRANTS 20.109 THE NATIONAL ACADEMIES OI SCIENCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AUGUS CONCES, ENGINEERING, AND HIGHWAY PLANNING AND CONSTRUCTION AUGUS CREARE, LIC AUGUS CREARE,	OVID - 19 - AIRPORT IMPROVEMENT PROGRAM	20.106	COVID - 19	
AVIATION RESEARCH GRANTS AVIATION RESEARCH GRANTS AVIATION RESEARCH GRANTS VIAITON RESEARCH GRANTS AVIATION RESEARCH GRANTS IR TRANSPORTATION CENTERS OF EXCELLENCE THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AVIATION RESEARCH AND RESEARCH AND RESEARCH AND DEVELOPMENT PROGRAM AVIATION RESEARCH RESEARCH RESEARCH AND DEVELOPMENT PROGRAM AVIATION RESEARCH				
AVIATION RESEARCH GRANTS 20.108 VIATION RESEARCH GRANTS 20.109 IR TRANSPORTATION CENTERS OF EXCELLENCE 20.109 THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE REINEAS WE STATE UNIVERSITY RESEARCH AND DEVELOPMENT PROGRAM 20.200 ENUMBERING OF FOUNDATION REINEASAW STATE UNIVERSITY RESEARCH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION REINEASAW STATE UNIVERSITY SCIENCES, ENGINEERING, AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND SERVICE SCIENCES, ENGINEERING, AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 OKLAHOMA STATE UNIVERSITY THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 OKLAHOMA STATE UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA	IN ON IN NOVEMENT PROGRAM	20.100		THE NATIONAL INSTITUTE OF
VIAITION RESEARCH GRANTS IR TRANSPORTATION CENTERS OF EXCELLENCE IR THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AND DEVELOPMENT PROGRAM 20.200 MEDICINE KENNESSAW STATE UNIVERSITY RESEARCH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM AND SERVICE HIGHWAY PLANNING AND CONSTRUCTION AND SERVICE AND DEVELOPMENT PROGRAM AND SERVICE HIGHWAY PLANNING AND CONSTRUCTION AND SERVICE AND DEVELOPMENT PROGRAM AND SERVICE OLD DOMINION UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION AND SERVICE OLD DOMINION UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION AND SERVICE AND SERVICE OLD DOMINION UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION AND SERVICE AND SERVICE OLD DOMINION UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION AND SERVICE AND SERVICE OLD DOMINION UNIVERSITY OLD DOMINION UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION AND SERVICE AND SERVICE SCIENCES ENGINEERING AND SERVICE AND SERVICE THE NATIONAL ACADEMIES OF SERVICE THE NATIONAL ACADEMIES OF SERVICE AND SERVICE FOUNDATION THE NATIONAL CADEMIES OF SERVICE THE NATIONAL ACADEMIES OF SERVICE AND SERVICE FOUNDATION THE NATIONAL ACADEMIES OF SERVICE FOUNDATION THE NATIONAL ACADEMIES OF SERVICE AND SERVICE FOUNDATION THE NATIONAL ACADEMIES OF SERVICE FOUNDATION THE NATIONAL ACADEMIES OF SERVICE FOUNDATION THE NATIONAL ACADEMIES OF SERVICE FO	AVIATION RESEARCH GRANTS	20 108		
IR TRANSPORTATION CENTERS OF EXCELLENCE THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM PIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION RESEARCH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION RESEARCH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY PLANNING AND CONSTRUCTION 20.205 MEDICINE HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 MIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA				ALNOSFACE
THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 RESEARCH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA				
SCIENCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE SOLENCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE RESEARCH AND SERVICE FOUNDATION RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION RESEARCH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION THE NATIONAL ACADEMIES OI SCIENCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION THE NATIONAL ACADEMIES OI SCIENCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 ONLAHOMA STATE UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 CREAR, LLC HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA UNIVERSITY OF	AIR TRANSPORTATION CENTERS OF EXCELLENCE	20.109		
HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE KENNESSAW STATE UNIVERSITY RESEARCH AND DEVELOPMENT PROGRAM 20.200 HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION KENNESSAW STATE UNIVERSITY RESEARCH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION THE NATIONAL ACADEMIES OI SCIENCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY PLANNING AND CONSTRUCTION 20.205 CREARE, LLC HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA				
THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 RESEARCH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 RENNESAW STATE UNIVERSITY RESEARCH AND SERVICE FOUNDATION RENNESAW STATE UNIVERSITY RESEARCH AND SERVICE FOUNDATION THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 OKLAHOMA STATE UNIVERSITY THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY PLANNING AND CONSTRUCTION 20.205 CREARE, LLC HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA				
HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION KENNESSAW STATE UNIVERSITY RESEARCH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION RESEARCH AND DEVELOPMENT PROGRAM 20.200 THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 OKLAHOMA STATE UNIVERSITY THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 OKLAHOMA STATE UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION 20.205 CREARE, LLC HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA	HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM	20.200		MEDICINE
HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 RENNESAW STATE UNIVERSITY RESEARCH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE FOUNDATION KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM DEVELOPMENT PROGRAM 20.200 OKLAHOMA STATE UNIVERSITY HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM DEVELOPMENT PROGRAM 20.200 OKLAHOMA STATE UNIVERSITY HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM DEVLOPMENT PROGRAM DEVELOPMENT PROGRAM DEVELOPMENT PROGRAM DEVEL				THE NATIONAL ACADEMIES OF
KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 RENNESAW STATE UNIVERSITY RESEARCH AND SERVICE FOUNDATION TRESEARCH AND SERVICE FOUNDATION OF FOUNDATION THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 OKLAHOMA STATE UNIVERSITY THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 OKLAHOMA STATE UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION 20.205 CREARE, LLC HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA				SCIENCES, ENGINEERING, AND
RESEARCH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION RESEARCH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY PLANNING AND CONSTRUCTION 20.205 MEDICINE HIGHWAY PLANNING AND CONSTRUCTION 20.205 MEDICINE HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 MINIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA	HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM	20.200		MEDICINE
HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE FOUNDATION THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 10.200 HIGHWAY PLANNING AND CONSTRUCTION 10.2005 HIGHWAY PLANNING AND CONSTRUCTION 10.2005 HIGHWAY PLANNING AND CONSTRUCTION 10.2005 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 10.2005 HIGHWAY PLANNING AND CONSTRUCTION 10.2005 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 10.2005 HIGHWAY PLANNING AND CONSTRUCTION 10.2005 HIGHWAY PLANNING AND CONSTRUCTION 10.2005 UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA				KENNESAW STATE UNIVERSITY
RENNESAW STATE UNIVERSITY RESEARCH AND SERVICE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 FOUNDATION THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 OKLAHOMA STATE UNIVERSITY THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY PLANNING AND CONSTRUCTION 20.205 CREARE, LLC HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 HIGHWAY PLANNING AND CONSTRUCTION 20.205 HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA				RESEARCH AND SERVICE
HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 OKLAHOMA STATE UNIVERSITY THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY PLANNING AND CONSTRUCTION 20.205 CREARE, LLC HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA UNIVERSITY OF FLORIDA UNIVERSITY OF TEXAS AT	HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM	20.200		FOUNDATION
HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 OKLAHOMA STATE UNIVERSITY THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY PLANNING AND CONSTRUCTION 20.205 CREARE, LLC HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA UNIVERSITY OF FLORIDA UNIVERSITY OF TEXAS AT				KENNESAW STATE UNIVERSITY
HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM DEVELOPMENT PROGRAM 20.200 OKLAHOMA STATE UNIVERSITY THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND SCIENCES, ENGINEERING, AND SCIENCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM HIGHWAY PLANNING AND CONSTRUCTION DIVING AND CONSTRUCTION 20.205 CREARE, LLC HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA UNIVERSITY OF FLORIDA UNIVERSITY OF TEXAS AT				
THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND SCIENCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM ### PLANNING AND DEVELOPMENT PROGRAM ### PROGRAM ### PROGRAM ### PLANNING AND CONSTRUCTION ##	HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM	20.200		
HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 OKLAHOMA STATE UNIVERSITY THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY PLANNING AND CONSTRUCTION 20.205 CREARE, LLC HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA OLD DOMINION UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION OLD DOMINION UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION 20.205 HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA	MOTIVAT RESEARCH AND DEVELOT WENT TROOTAM	20.200		
HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 OKLAHOMA STATE UNIVERSITY THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND SCIENCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM HIGHWAY PLANNING AND CONSTRUCTION 20.205 MEDICINE HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA				
HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 OKLAHOMA STATE UNIVERSITY THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND SCIENCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM HIGHWAY PLANNING AND CONSTRUCTION 20.205 CREARE, LLC HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION OLD DOMINION UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA UNIVERSITY OF TEXAS AT	LUCULUAY DECEADOU AND DELICIODAGNET DROCDAM	20.200		•
THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND SCIENCES, ENGINEERING, AND HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM HIGHWAY PLANNING AND CONSTRUCTION 20.205 CREARE, LLC HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA				
HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM 20.200 MEDICINE HIGHWAY PLANNING AND CONSTRUCTION 20.205 CREARE, LLC HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA OLD DOMINION UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION OLD DOMINION UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA	HIGHWAY RESEARCH AND DEVELOPMENT PROGRAM	20.200		
HIGHWAY PLANNING AND CONSTRUCTION 20.205 MEDICINE CREARE, LLC HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA OLD DOMINION UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION OLD DOMINION UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA				
HIGHWAY PLANNING AND CONSTRUCTION 20.205 CREARE, LLC HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA OLD DOMINION UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION OLD DOMINION UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA UNIVERSITY OF FLORIDA UNIVERSITY OF TEXAS AT				
HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA OLD DOMINION UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION OLD DOMINION UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA UNIVERSITY OF FLORIDA UNIVERSITY OF TEXAS AT				
OLD DOMINION UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION OLD DOMINION UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 ICF INTERNATIONAL, INC. HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA UNIVERSITY OF TEXAS AT	HIGHWAY PLANNING AND CONSTRUCTION	20.205		CREARE, LLC
OLD DOMINION UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION OLD DOMINION UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 ICF INTERNATIONAL, INC. HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA UNIVERSITY OF TEXAS AT				-
HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION OLD DOMINION UNIVERSITY HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 ICF INTERNATIONAL, INC. HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA UNIVERSITY OF TEXAS AT	HIGHWAY PLANNING AND CONSTRUCTION	20.205		
HIGHWAY PLANNING AND CONSTRUCTION 20.205 HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA 20.205 UNIVERSITY OF FLORIDA UNIVERSITY OF TEXAS AT				
HIGHWAY PLANNING AND CONSTRUCTION 20.205 RESEARCH FOUNDATION HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 ICF INTERNATIONAL, INC. HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA UNIVERSITY OF TEXAS AT	HIGHWAY PLANNING AND CONSTRUCTION	20.205		RESEARCH FOUNDATION
HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA HIGHWAY PLANNING AND CONSTRUCTION 20.205 ICF INTERNATIONAL, INC. HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA UNIVERSITY OF TEXAS AT				OLD DOMINION UNIVERSITY
HIGHWAY PLANNING AND CONSTRUCTION 20.205 ICF INTERNATIONAL, INC. HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA UNIVERSITY OF TEXAS AT	HIGHWAY PLANNING AND CONSTRUCTION	20.205		RESEARCH FOUNDATION
HIGHWAY PLANNING AND CONSTRUCTION 20.205 ICF INTERNATIONAL, INC. HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA UNIVERSITY OF TEXAS AT				
HIGHWAY PLANNING AND CONSTRUCTION 20.205 UNIVERSITY OF FLORIDA UNIVERSITY OF TEXAS AT	HIGHWAY PLANNING AND CONSTRUCTION	20.205		UNIVERSITY OF FLORIDA
UNIVERSITY OF TEXAS AT	HIGHWAY PLANNING AND CONSTRUCTION	20.205		ICF INTERNATIONAL, INC.
	HIGHWAY PLANNING AND CONSTRUCTION	20.205		UNIVERSITY OF FLORIDA
				UNIVERSITY OF TEXAS AT
HIGHWAY PLANNING AND CONSTRUCTION 20.205 ARTINGTON	HIGHWAY PLANNING AND CONSTRUCTION	20.205		ARLINGTON

Identifying Number Assigned By Funder	Total Amount		Federal		
Pass-Through	Provided to	Federal	Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
"RWLIN0001130001"		-\$851	\$84,130	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CON010159"		-\$803	\$84,130	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CBSA18-UGA01"		<i>\$3</i> \$2,648	<i>\$84,130</i> \$84,130	RESEARCH AND DEVELOPMENT N/A	<i>\$1,233,831,971</i> \$0
"CON013973"		\$24,186	\$84,130	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"198803"		\$58,947	\$84,130	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"23961"		\$15,765	\$104,584	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"ROCEC0001160001"	\$17,927	\$88,819	\$104,584	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$696,433	\$2,044,259	\$2,044,259	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"FY21-HEP19-GT-01"	. ,	\$21,208	\$21,208	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$15,687	\$15,688	\$15,688	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$174,673	\$174,673	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CON013088"		\$914	\$914	N/A	\$0
"SNEAAC20CA0028"		\$25,357	\$25,357	RESEARCH AND DEVELOPMENT	\$1,233,831,971
SNEAAC20CA0028		\$17,082	\$17,082	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$835	\$835	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		7033	7033	RESEARCH AND DEVELOT MENT	71,233,031,371
	\$730,047	\$2,488,730			
	\$6,723,563	\$6,731,794	\$50,271,164	N/A	\$0
	\$43,226,992	\$43,539,370	\$50,271,164	N/A	\$0 \$0
	\$43,220,992	Ş43,33 3 ,370	\$30,271,104	N/A	Şυ
"X16-8329-GTRC"		-\$3,185	-\$5,470	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		-\$2,285	-\$5,470	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$1,217,743	\$5,793,431	\$5,793,431	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"HR2044015"		\$2,382	\$320,085	RESEARCH AND DEVELOPMENT	\$1,233,831,971
111/2044015		72,302	\$320,003	RESEARCH AND DEVELOT MENT	\$1,233,031,371
"182618L"		\$11,870	\$320,085	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"RP 18-28"		\$20,035	\$320,085	RESEARCH AND DEVELOPMENT	\$1,233,831,971
=====		7-1,000	7-2-7-22		<i>+ -,,</i>
"DD 40 07"		400.000	4000.005		44 000 004 074
"RP 19-07"		\$22,988	\$320,085	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"FELLOWSHIP FOR MOSES					
IKE-SEP 2"		\$27,000	\$320,085	N/A	\$0
"1-578560-GTRC"		\$114,797	\$320,085	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"200011051"		\$121,013	\$320,085	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"6913G618C100008"		-\$2,362	\$1,452,526,382	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"AMEND 20-					
(UFDSP00011673)"		\$189	\$1,452,526,382	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"AWARD EXECUTED		40.405	64 452 522 223	DECEMBELL AND DELIGION OF THE	64 222 224 5
9/10/19"		\$3,183	\$1,452,526,382	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"#14055 ACRP AWARD"		\$6,000	\$1,452,526,382	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"UFDSP00011673 AMEND 18					
PROJ F3"		\$7,617	\$1,452,526,382	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"17ANSK0018"		\$8,057	\$1,452,526,382	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"AMENDMENT 24"		\$10,162	\$1,452,526,382	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CTEDD 021-04"		\$13,280	\$1,452,526,382	RESEARCH AND DEVELOPMENT	\$1,233,831,971

	Fodoval	Additional	Name of Funday
	Federal CFDA	Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
HIGHWAY PLANNING AND CONSTRUCTION	20.205	(Ортони)	UNIVERSITY OF FLORIDA
			UNIVERSITY OF TEXAS AT
HIGHWAY PLANNING AND CONSTRUCTION	20.205		ARLINGTON
HIGHWAY PLANNING AND CONSTRUCTION	20.205		TRANSPORTATION RESEARCH BOARD
HIGHWAY PLANNING AND CONSTRUCTION	20.205		UNIVERSITY OF NEVADA
			UNIVERSITY OF TEXAS AT
HIGHWAY PLANNING AND CONSTRUCTION	20.205		ARLINGTON
HIGHWAY PLANNING AND CONSTRUCTION	20.205		UNIVERSITY OF FLORIDA
HIGHWAY PLANNING AND CONSTRUCTION	20.205		UNIVERSITY OF FLORIDA
HIGHWAY PLANNING AND CONSTRUCTION	20.205		UNIVERSITY OF TEXAS AT ARLINGTON
HIGHWAY PLANNING AND CONSTRUCTION	20.205		UNIVERSITY OF FLORIDA
HIGHWAY PLANNING AND CONSTRUCTION	20.205		UNIVERSITY OF FLORIDA
HIGHWAY PLANNING AND CONSTRUCTION	20.205		UNIVERSITY OF FLORIDA
			THE NATIONAL ACADEMIES OF
			SCIENCES, ENGINEERING, AND
HIGHWAY PLANNING AND CONSTRUCTION	20.205		MEDICINE
LUCHIMAY DI ANNINO AND CONSTRUCTION	20.205		UNIVERSITY OF ILLINOIS AT
HIGHWAY PLANNING AND CONSTRUCTION	20.205		URBANA-CHAMPAIGN TRANSPORTATION RESEARCH
HIGHWAY PLANNING AND CONSTRUCTION	20.205		BOARD
HIGHWAT FLANNING AND CONSTRUCTION	20.203		BOAND
HIGHWAY PLANNING AND CONSTRUCTION	20.205		UNIVERSITY OF CALIFORNIA, DAVIS
HIGHWAY PLANNING AND CONSTRUCTION	20.205		ARIZONA STATE UNIVERSITY
			GEORGIA SOUTHERN UNIVERSITY
			RESEARCH AND SERVICE
HIGHWAY PLANNING AND CONSTRUCTION	20.205		FOUNDATION, INC.
HIGHWAY PLANNING AND CONSTRUCTION	20.205		
LUCUMAY DI ANNINIC AND CONSTRUCTION	20.205		
HIGHWAY PLANNING AND CONSTRUCTION HIGHWAY TRAINING AND EDUCATION	20.205		
HIGHWAY TRAINING AND EDUCATION	20.215		
THE THE THE PERSON TO THE PERS	20.213		
MOTOR CARRIER SAFETY ASSISTANCE	20.218		
RECREATIONAL TRAILS PROGRAM	20.219		
FEDERAL LANDS ACCESS PROGRAM	20.224		
COMMERCIAL DRIVER'S LICENSE PROGRAM IMPLEMENTATION GRANT	20.232		
COMMERCIAL MOTOR VEHICLE OPERATOR SAFETY TRAINING GRANTS	20.235		
MOTOR CARRIER SAFETY ASSISTANCE HIGH PRIORITY ACTIVITIES GRANTS AND			
COOPERATIVE AGREEMENTS	20.237		
HIGH-SPEED RAIL CORRIDORS AND INTERCITY PASSENGER RAIL SERVICE CAPITAL			
ASSISTANCE GRANTS	20.319		
CONSOLIDATED RAIL INFRASTRUCTURE AND SAFETY IMPROVEMENTS	20.325		
FEDERAL TRANSIT CAPITAL INVESTMENT GRANTS METROPOLITAN TRANSPORTATION PLANNING AND STATE AND NON-	20.500		
METROPOLITAN TRANSPORTATION PLANNING AND STATE AND NON-	20.505		
FEDERAL TRANSIT FORMULA GRANTS	20.507		
COVID - 19 - FEDERAL TRANSIT FORMULA GRANTS	20.507	COVID - 19	
FORMULA GRANTS FOR RURAL AREAS AND TRIBAL TRANSIT PROGRAM	20.509		
	00 =		
COVID - 19 - FORMULA GRANTS FOR RURAL AREAS AND TRIBAL TRANSIT PROGRAM	20.509	COVID - 19	
ENHANCED MOBILITY OF SENIORS AND INDIVIDUALS WITH DISABILITIES	20.513		
JOB ACCESS AND REVERSE COMMUTE PROGRAM	20.516		
	-		

Identifying Number Assigned By Funder	Total Amount		Federal		_
Pass-Through	Provided to	Federal	Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
"AMENDMENT 23"		\$13,787	\$1,452,526,382	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CTEDD 2021 # 021-08"		\$19,349	\$1,452,526,382	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"NCHRP-214"		\$20,204	\$1,452,526,382	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"GR10321"		\$27,953	\$1,452,526,382	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CTEDD 2020"		\$31,431	\$1,452,526,382	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"UFDSP00011673 AMEND. 5"		\$33,167	\$1,452,526,382	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"AMEND 20		4.2.22	4		4
(UFDSP00011673)"		\$42,765	\$1,452,526,382	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CTEDD 2020-02"		\$60,072	\$1,452,526,382	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"UFDSP00011673 AMEND 18					
PROJ H3"		\$68,168	\$1,452,526,382	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"UFDSP00011673 - PROJECT Q2"		Ć00 700	¢1 452 526 202	RESEARCH AND DEVELOPMENT	ć1 222 021 0 7 1
"UFDSP00011673 - AMEND		\$88,799	\$1,452,526,382	RESEARCH AND DEVELOPMENT	\$1,233,831,971
20"		\$96.645	\$1,452,526,382	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		700,010	7-7:0-70-0,00-		<i>+-</i> //
"HR-01-60"		\$113,046	\$1,452,526,382	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"087795-17555"		¢116 171	¢1 /E2 E26 202	RESEARCH AND DEVELOPMENT	¢1 222 021 071
00//95-1/555		\$116,171	\$1,452,526,382	RESEARCH AIND DEVELOPMENT	\$1,233,831,971
"TCRP A-43"		\$170,886	\$1,452,526,382	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"A17-0183-S002"		\$417,765	\$1,452,526,382	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"17-166"		\$465,829	\$1,452,526,382	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"63828383-14"	\$50,175	\$526,329	\$1,452,526,382	RESEARCH AND DEVELOPMENT	\$1,233,831,971
03020303 14	\$30,173	\$1,076,448	\$1,452,526,382	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		, ,,, ,	, , - ,,	HIGHWAY PLANNING AND	, , , .
	\$75,397,725	\$1,449,091,442	\$1,452,526,382	CONSTRUCTION CLUSTER	\$1,451,817,315
		\$4,103	\$51,523	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$47,420	\$51,523	N/A	\$0
				FEDERAL MOTOR CARRIER SAFETY	
		\$11,609,594	\$11,609,594	ASSISTANCE (FMCSA)	\$12,556,539
	¢2 202 747	¢2 E70 061	¢2 E70 061	HIGHWAY PLANNING AND CONSTRUCTION CLUSTER	\$1,451,817,315
	\$2,202,747	\$2,570,061	\$2,570,061	HIGHWAY PLANNING AND	\$1,451,617,515
		\$155,812	\$155,812	CONSTRUCTION CLUSTER	\$1,451,817,315
		\$590,685	\$590,685	N/A	\$0
		\$54,521	\$54,521	N/A	\$0
				FEDERAL MOTOR CARRIER SAFETY	
		\$946,945	\$946,945	ASSISTANCE (FMCSA)	\$12,556,539
		-\$1,197	-\$1,197	N/A	¢0
		\$1,041,945	\$1,041,945	N/A N/A	\$0 \$0
		\$6,955,190	\$6,955,190	FEDERAL TRANSIT CLUSTER	\$57,101,223
		, :,: >=,==	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, : , : : -, : 2
	\$3,210,556	\$3,731,041	\$3,731,041	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$3,395,911	\$11,538,978	\$42,051,894	FEDERAL TRANSIT CLUSTER	\$57,101,223
	\$24,710,506	\$30,512,916	\$42,051,894	FEDERAL TRANSIT CLUSTER	\$57,101,223
	\$291,041	\$1,051,240	\$48,873,786	N/A	\$0
	\$31,868,785	\$47,822,546	\$48,873,786	N/A	\$0
		,, , ,	, ,	TRANSIT SERVICES PROGRAMS	Ψ.
		\$3,971,061	\$3,971,061	CLUSTER	\$4,223,044
				TRANSIT SERVICES PROGRAMS	
	\$95,736	\$251,983	\$251,983	CLUSTER	\$4,223,044

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
ALTERNATIVES ANALYSIS	20.522		
STATE OF GOOD REPAIR GRANTS PROGRAM	20.525		
BUSES AND BUS FACILITIES FORMULA, COMPETITIVE, AND LOW OR NO EMISSIONS PROGRAMS	20.526		
RAIL FIXED GUIDEWAY PUBLIC TRANSPORTATION SYSTEM STATE SAFETY OVERSIGHT			
FORMULA GRANT PROGRAM	20.528		
PUBLIC TRANSPORTATION INNOVATION	20.530		
STATE AND COMMUNITY HIGHWAY SAFETY	20.600		
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION (NHTSA) DISCRETIONARY			
SAFETY GRANTS AND COOPERATIVE AGREEMENTS	20.614		
E-911 GRANT PROGRAM	20.615		
			GEORGIA SOUTHERN UNIVERSITY RESEARCH AND SERVICE
NATIONAL PRIORITY SAFETY PROGRAMS	20.616		FOUNDATION, INC.
	20.020		KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE
NATIONAL PRIORITY SAFETY PROGRAMS	20.616		FOUNDATION
NATIONAL PRIORITY SAFETY PROGRAMS	20.616		
PIPELINE SAFETY PROGRAM STATE BASE GRANT	20.700		
UNIVERSITY TRANSPORTATION CENTERS PROGRAM	20.701		UNIVERSITY OF TEXAS AT ARLINGTON
			MISSOURI UNIVERSITY OF SCIENCE
UNIVERSITY TRANSPORTATION CENTERS PROGRAM	20.701		AND TECHNOLOGY MISSOURI UNIVERSITY OF SCIENCE
UNIVERSITY TRANSPORTATION CENTERS PROGRAM	20.701		AND TECHNOLOGY MISSOURI UNIVERSITY OF SCIENCE
UNIVERSITY TRANSPORTATION CENTERS PROGRAM	20.701		AND TECHNOLOGY
UNIVERSITY TRANSPORTATION CENTERS PROGRAM	20.701		PURDUE UNIVERSITY
UNIVERSITY TRANSPORTATION CENTERS PROGRAM	20.701		
UNIVERSITY TRANSPORTATION CENTERS PROGRAM	20.701		TEXAS A&M UNIVERSITY
INTERAGENCY HAZARDOUS MATERIALS PUBLIC SECTOR TRAINING AND PLANNING GRANTS	20.703		7.2.7.6.7.6.7.7.2.7.6.7.7
PORT INFRASTRUCTURE DEVELOPMENT PROGRAM	20.823		
NATIONALLY SIGNIFICANT FREIGHT AND HIGHWAY PROJECTS	20.934		
TOTAL DEPARTMENT OF TRANSPORTATION			
DEPARTMENT OF TREASURY			
VOLUNTEER INCOME TAX ASSISTANCE (VITA) MATCHING GRANT PROGRAM	21.009		
EQUITABLE SHARING	21.016		
COVID - 19 - CORONAVIRUS RELIEF FUND	21.019	COVID - 19	CITY OF ATLANTA
COVID - 19 - CORONAVIRUS RELIEF FUND	21.019	COVID - 19	
COVID - 19 - EMERGENCY RENTAL ASSISTANCE PROGRAM	21.023	COVID - 19	
COVID - 19 - HOMEOWNER ASSISTANCE FUND	21.026	COVID - 19	
COVID - 19 - CORONAVIRUS STATE AND LOCAL FISCAL RECOVERY FUNDS TOTAL DEPARTMENT OF TREASURY	21.027	COVID - 19	
APPALACHIAN REGIONAL COMMISSION			
APPALACHIAN AREA DEVELOPMENT	23.002		
APPALACHIAN RESEARCH, TECHNICAL ASSISTANCE, AND			FACT TENANCECES CTATE HANDEDCITY
DEMONSTRATION PROJECTS APPALACHIAN RESEARCH, TECHNICAL ASSISTANCE, AND DEMONSTRATION PROJECTS	23.011		EAST TENNESSEE STATE UNIVERSITY
TOTAL APPALACHIAN REGIONAL COMMISSION	23.011		
EQUAL EMPLOYMENT OPPORTUNITY COMMISSION			
EMPLOYMENT DISCRIMINATION TITLE VII OF THE CIVIL RIGHTS ACT OF 1964	30.001		

Identifying Number Assigned By Funder Pass-Through	Total Amount Provided to	Federal	Federal Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
Littly	Sub Necipients	\$75,180	\$75,180	N/A	rotur
		\$1,280,438	\$1,280,438	FEDERAL TRANSIT CLUSTER	\$57,101,
	\$6,661,061	\$6,813,701	\$6,813,701	FEDERAL TRANSIT CLUSTER	\$57,101,
		\$1,048,764	\$1,048,764	N/A	
		\$61,207	\$61,207	N/A	
	\$4,855,878	\$9,354,462	\$9,354,462	HIGHWAY SAFETY CLUSTER	\$15,893
		\$121,911	\$121,911	N/A	
		\$426,283	\$426,283	N/A	
"63828383-15"		\$3,564	\$6,539,347	HIGHWAY SAFETY CLUSTER	\$15,893,
'YA-2018402TSP-010"		\$3,615	\$6,539,347	HIGHWAY SAFETY CLUSTER	\$15,893,
	\$1,083,768	\$6,532,168	\$6,539,347	HIGHWAY SAFETY CLUSTER	\$15,893
		\$1,029,654	\$1,029,654	N/A	
C-TEDD 2020 - RE:2016 MOU"		¢4.200	Ć722 404	N/4	
MOU		\$4,200	\$732,404	N/A	
"#0055082-02D"		\$13,749	\$732,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
"00055082-02B"		\$32,238	\$732,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
"00055082-02C"		\$61,872	\$732,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
"16100096-024"	400 550	\$139,289	\$732,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
"12-S171237"	\$30,558	\$212,089 <i>\$268,967</i>	\$732,404 \$732,404	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831 \$1,233,831,
12-31/123/		\$200,507	<i>\$732,404</i>	NESEANCH AIND DEVELOPIVIEIVI	\$1,233,031,
		\$316,846	\$316,846	N/A	
		\$2,446,406	\$2,446,406	N/A	
		\$4,005,849	\$4,005,849	N/A	
	\$205,022,745	\$1,666,012,888			
		\$37,045	\$37,045	RESEARCH AND DEVELOPMENT	\$1,233,831
		\$731,595	\$731,595	N/A	
"CON013903"		\$130,413	\$2,281,486,939	N/A	
	\$409,182,327	\$2,281,356,526	\$2,281,486,939	N/A	
		\$14,430,494	\$14,430,494	N/A	
		\$44,527	\$44,527	N/A	
		\$715	\$715	N/A	
	\$409,182,327	\$2,296,731,315			
	\$2,191,068	\$2,232,366	\$2,232,366	N/A	
"19-297-1-S2.1"		\$545	\$1,038,784	N/A	
	Ć722.722				
	\$732,733	\$1,038,239	\$1,038,784	N/A	
	\$2,923,801	\$3,271,150			
		\$58,793	\$58,793	N/A	
		+30,.00	+30,.33	, .	

Federal Awarding Agency/Program Title	Federal CFDA Number	Additional Award Identification (Optional)	Name of Funder Pass-Through Entity
TOTAL EQUAL EMPLOYMENT OPPORTUNITY COMMISSION	Number	(Орионин)	Linuty
GENERAL SERVICES ADMINISTRATION			
DONATION OF FEDERAL SURPLUS PERSONAL PROPERTY	39.003		
TOTAL GENERAL SERVICES ADMINISTRATION			
LIBRARY OF CONGRESS			
TEACHING WITH PRIMARY SOURCES TOTAL LIBRARY OF CONGRESS	42.010		WAYNESBURG UNIVERSITY
NATIONAL AERONAUTICS & SPACE ADMINISTRATION			
SCIENCE	43.001		JET PROPULSION LABORATORY
SCIENCE	43.001		JET PROPULSION LABORATORY
SCIENCE	43.001		JET PROPULSION LABORATORY
SCIENCE	43.001		JET PROPULSION LABORATORY
SCIENCE	43.001		UNIVERSITY OF CALIFORNIA, RIVERSIDE
JULINEE	45.001		THE NATIONAL INSTITUTE OF
SCIENCE	43.001		AEROSPACE
SCIENCE	43.001		JET PROPULSION LABORATORY
SCIENCE	43.001		SOUTHWEST RESEARCH INSTITUTE
SCIENCE	43.001		CONTINUUM DYNAMICS, INC. CALIFORNIA INSTITUTE OF
SCIENCE	43.001		TECHNOLOGY
			GLOBAL TECHNOLOGY
SCIENCE	43.001		CONNECTION, INC.
SCIENCE	43.001		JET PROPULSION LABORATORY
COURNET	42.004		NORTH CAROLINA STATE
SCIENCE SCIENCE	43.001 43.001		UNIVERSITY JET PROPULSION LABORATORY
SCIENCE	43.001		JET PROPULSION LABORATORY
SCIENCE	43.001		JACOBS TECHNOLOGY, INC.
SCIENCE	43.001		JET PROPULSION LABORATORY
SCIENCE	43.001		NORTHERN ARIZONA UNIVERSITY
SCIENCE SCIENCE	43.001 43.001		JET PROPULSION LABORATORY JET PROPULSION LABORATORY
SCIENCE	43.001		JET PROPULSION LABORATORY
SCIENCE	43.001		JET PROPULSION LABORATORY
SCIENCE	43.001		CLEMSON UNIVERSITY
SCIENCE	43.001		CFD RESEARCH CORPORATION
SCIENCE	43.001		DARTMOUTH COLLEGE
COVID - 19 - SCIENCE	42.001	COV/ID 10	THE UNIVERSITY OF ALABAMA IN
COVID - 13 - SCIENCE	43.001	COVID - 19	HUNTSVILLE GEORGIA SOUTHERN UNIVERSITY
			RESEARCH AND SERVICE
SCIENCE	43.001		FOUNDATION, INC.
SCIENCE	43.001		CFD RESEARCH CORPORATION
CCIENCE	42.004		THE UNIVERSITY OF ALABAMA IN
SCIENCE SCIENCE	43.001 43.001		HUNTSVILLE JET PROPULSION LABORATORY
SCIENCE	43.001		JET PROPULSION LABORATORY
			MASSACHUSETTS INSTITUTE OF
SCIENCE	43.001		TECHNOLOGY
SCIENCE	43.001		JET PROPULSION LABORATORY
SCIENCE	43.001		UNIVERSITY OF IDAHO

Identifying Number Assigned By Funder Pass-Through Entity	Total Amount Provided to Sub-Recipients	Federal Expenditures	Federal Program Total	Cluster Name	Cluster Total
		\$58,793			
		\$35,313,366	\$35,313,366	N/A	
		\$35,313,366			
"GRANT 1194 54"		\$5,415	\$5,415	N/A	
UNANT 1134_34		\$5,415	<i>\$3,413</i>	IV/A	
"1631930" "1570950"		-\$6,917 -\$644	\$11,552,143 \$11,552,143	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831 \$1,233,831
"1616612"		-\$577	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"1614730"		\$2	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"S-001436"		\$1,860	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"000030161"		\$1,895	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"1641334"		\$2,710	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"CON012814"		\$2,949	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"146215"		\$3,488	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"36694"		\$4,000	\$11,552,143	N/A	
"147285"		\$5,194	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"1619992"		\$6,084	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"2020-0613-01"		\$7,674	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"1639653"		\$8,518	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"1641536"		\$9,627	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"21N0146"		\$9,790	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"1662067"		\$10,464	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"1003545"		\$10,558	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"1656498"		\$10,807	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"1642652"		\$10,947	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"1640630"		\$15,136	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"1660879" "21262000000000"		\$18,021	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"80ARC021F0055"		\$18,161	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"R1017"		\$19,494 \$20,300	\$11,552,143 \$11,552,143	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831 \$1,233,831
"2020-1287"		\$21,188	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"63828383-16"		\$23,721	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"9373"		\$27,032	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"2019-043"		\$27,293	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"1639444"		\$28,125	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"1639764"		\$29,895	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"MIT-GT-S5255"		\$32,300	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"1650969"		\$33,004	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831
"SP3303-SB-223473"		\$37,154	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
		(ориона)	,
			VIRGINIA POLYTECHNIC INSTITUTE
SCIENCE	43.001		AND STATE UNIVERSITY
SCIENCE	43.001		JET PROPULSION LABORATORY
SCIENCE	43.001		JET PROPULSION LABORATORY
			THE NATIONAL INSTITUTE OF
SCIENCE	43.001		AEROSPACE
CIENCE	43.001		
			FLORIDA INTERNATIONAL
SCIENCE	43.001		UNIVERSITY
CCIENCE	42.004		THE NATIONAL INSTITUTE OF
SCIENCE	43.001		AEROSPACE
SCIENCE	43.001		THE NATIONAL INSTITUTE OF
SCIENCE	43.001		AEROSPACE THE NATIONAL INSTITUTE OF
SCIENCE	43.001		AEROSPACE
SCIENCE	43.001		UNIVERSITY OF CALIFORNIA, SANTA
SCIENCE	43.001		BARBARA
SCIENCE	43.001		MASSACHUSETTS INSTITUTE OF
SCIENCE	43.001		TECHNOLOGY
SCIENCE	43.001		THE NATIONAL INSTITUTE OF
SCIENCE	43.001		AEROSPACE
SCIENCE	43.001		JET PROPULSION LABORATORY
SCIENCE	43.001		JETT NOT DESIGN EADONATONT
SCIENCE	43.001		SOUTHWEST RESEARCH INSTITUTE
SCIENCE	43.001		UNIVERSITY OF CALIFORNIA,
SCIENCE	43.001		RIVERSIDE
SCIENCE	43.001		THE NATIONAL INSTITUTE OF
SCIENCE	43.001		AEROSPACE
CIENCE	43.001		7.2.1.66, 7.62
0.2.1.02	101001		MAGNOLIA OPTICAL
AERONAUTICS	43.002		TECHNOLOGIES, INC.
AERONAUTICS	43.002		TRACLABS, INC.
AERONAUTICS	43.002		DNC PARKS & RESORTS AT KSC, INC
AERONAUTICS	43.002		PHYSICAL SCIENCES, INC.
AERONAUTICS	43.002		JACOBS TECHNOLOGY, INC.
AERONAUTICS	43.002		UNIVERSITY OF MINNESOTA
			ANALYTICAL SERVICES &
AERONAUTICS	43.002		MATERIALS, INC.
AERONAUTICS	43.002		SPACE DYNAMICS LABORATORY
AERONAUTICS	43.002		NATIONAL AEROSPACE SOLUTIONS
AERONAUTICS	43.002		XAVIER UNIVERSITY OF LOUISIANA
			NAVMAR APPLIED SCIENCES
AERONAUTICS	43.002		CORPORATION
AERONAUTICS	43.002		UNIVERSITY OF VIRGINIA
AERONAUTICS	43.002		HS ADVANCED CONCEPTS
AERONAUTICS	43.002		JACOBS TECHNOLOGY, INC.
AERONAUTICS	43.002		SETI INSTITUTE
AERONAUTICS	43.002		JET PROPULSION LABORATORY
			GLOBAL TECHNOLOGY
AERONAUTICS	43.002		CONNECTION, INC.
AERONAUTICS	43.002		TDA RESEARCH, INC.
AERONAUTICS	43.002		JACOBS TECHNOLOGY, INC.
			THE NATIONAL INSTITUTE OF
AERONAUTICS	43.002		AEROSPACE
AERONAUTICS	43.002		PHYSICAL SCIENCES, INC.
AERONAUTICS	43.002		STANFORD UNIVERSITY
			THE NATIONAL INSTITUTE OF

Assigned By Funder	Total Amount		Federal	21	
Pass-Through	Provided to	Federal	Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
"426689-19105"		\$48,909	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"1651655"		\$51,873	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"1649511"		\$54,478	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"602007"		\$57,873	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831,9
002007		\$71,872	\$11,552,143	N/A	ψ1,233,031,3
"800007887-01UG"		\$77,774	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"F20-808408-GTRC"		\$79,997	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"302001-GTRC"		\$100,041	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"T13-6500-GT"		\$102,198	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"KK1832"		\$111,498	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"5710004050"		\$139,635	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"601063"		\$162,330	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"1651241"		\$164,032	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"699054X/15.12029"		\$183,652	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"S-000728"		\$419,493	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831,
"601065"		\$779,456	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831,
	\$1,937,321	\$8,497,779	\$11,552,143	RESEARCH AND DEVELOPMENT	\$1,233,831,
"NASAAPD02"		-\$7,495	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,
AGT DTD AUG 25, 2017"		-\$523	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,
"TO 1 DTD 11/18/16"		-\$426	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,
"10-02490-1943"		-\$86	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,
"80MSFC18C0011"		\$1	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,
"H006201401"		\$6	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,
"BAART2019-001"		\$58	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CP0055174"		\$95	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,
"400427"		ć102	¢5 660 600	DECEARCH AND DEVELOPMENT	¢4 222 024
"408427"		\$102	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,
"OSP-15-216811-02A"		\$715	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,
"WM007916"		\$788	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,
"GD10052 152367"		\$7,147	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,
"HSAC-001-CON-ASDL"		\$8,462	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,
"19N0544"		\$8,648	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,
"SC3131"		\$9,596	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,
"1639638"		\$14,142	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,
"80NSSC20C0481"		\$25,000	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,
A.4101.030.GTRC.20.01"		\$25,028	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,
"20N0451"		\$25,299	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,
"202026-GTRC"		\$33,009	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,
"PO: 6006-033-JK- 12189REV1"		\$33,560	\$5,669,609	RESEARCH AND DEVELOPMENT	¢1 722 071
"62485886-176172"		\$33,560 \$38,698	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831, \$1,233,831,
		,	. , .,		

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
AERONAUTICS	43.002		
AERONAUTICS	43.002		SOAR TECHNOLOGY, INC.
AERONAUTICS	43.002		BOOZ ALLEN HAMILTON, INC.
AERONAUTICS	43.002		UNIVERSITY OF TEXAS AT AUSTIN
AERONAUTICS	43.002		JET PROPULSION LABORATORY
AERONAUTICS	43.002		JACOBS TECHNOLOGY, INC.
AERONAUTICS	43.002		JACOBS TECHNOLOGY, INC.
AERONAUTICS	43.002		VETH RESEARCH ASSOCIATES, LLC THE NATIONAL INSTITUTE OF
AERONAUTICS	43.002		AEROSPACE
AERONAUTICS	43.002		THE NATIONAL INSTITUTE OF AEROSPACE
AERONAUTICS	43.002		JACOBS TECHNOLOGY, INC.
7.2.16.10.07.65	10.002		9.10025 / 20.111020 0.1, 11101
AERONAUTICS	43.002		LMI SYSTEMS, INC.
			THE NATIONAL INSTITUTE OF
AERONAUTICS	43.002		AEROSPACE
AERONAUTICS	43.002		OHIO STATE UNIVERSITY
AERONAUTICS	43.002		SPACE DYNAMICS LABORATORY
AERONAUTICS	43.002		JET PROPULSION LABORATORY
AERONAUTICS	43.002		OEWAVES, INC.
			NORTH CAROLINA AGRICULTURAL
AERONAUTICS	43.002		AND TECHNICAL STATE UNIVERSIT
			THE NATIONAL INSTITUTE OF
AERONAUTICS	43.002		AEROSPACE
AERONAUTICS	43.002		CROWN CONSULTING, INC.
AERONAUTICS	43.002		BOOZ ALLEN HAMILTON, INC.
AERONAUTICS	43.002		BOOZ ALLEN HAMILTON, INC.
AERONAUTICS	43.002		MILLENNIUM ENGINEERING AND INTEGRATION COMPANY
AERONAUTICS	43.002		INTEGRATION CONFART
EXPLORATION	43.002		
ZAL EGIVINON	43.003		
OFFICE OF STEM ENGAGEMENT (OSTEM)	43.008		DNC PARKS & RESORTS AT KSC, INC
OFFICE OF STEM ENGAGEMENT (OSTEM)	43.008		PRAIRIE VIEW A&M UNIVERSITY
OFFICE OF STEM ENGAGEMENT (OSTEM)	43.008		XAVIER UNIVERSITY OF LOUISIANA
			GEORGIA SOUTHERN UNIVERSITY
			RESEARCH AND SERVICE
OFFICE OF STEM ENGAGEMENT (OSTEM)	43.008		FOUNDATION, INC.
OFFICE OF STEM ENGAGEMENT (OSTEM)	43.008		THE NATIONAL INSTITUTE OF AEROSPACE
			KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
OFFICE OF STEM ENGAGEMENT (OSTEM)	43.008		FOUNDATION
			THE NATIONAL INSTITUTE OF
OFFICE OF STEM ENGAGEMENT (OSTEM)	43.008		AEROSPACE
OFFICE OF STEM ENGAGEMENT (OSTEM)	43.008		THE NATIONAL INSTITUTE OF AEROSPACE
S. FICE OF STEIN ENGINEERIN (OSTEIN)	75.000		THE NATIONAL INSTITUTE OF
OFFICE OF STEM ENGAGEMENT (OSTEM)	43.008		AEROSPACE
OFFICE OF STEM ENGAGEMENT (OSTEM)	43.008		
OFFICE OF STEM ENGAGEMENT (OSTEM)	43.008		
SAFETY, SECURITY AND MISSION SERVICES	43.009		
			MICHIGAN TECHNOLOGICAL
SPACE TECHNOLOGY	43.012		UNIVERSITY
SPACE TECHNOLOGY	43.012		UNIVERSITY OF CALIFORNIA
SPACE TECHNOLOGY	43.012		

Identifying Number Assigned By Funder	Total Amount		Federal		
Pass-Through	Provided to	Federal	Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
,	,	\$43,000	\$5,669,609	N/A	\$(
"SC-20-027"		\$44,606	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"FA8075-14-D-0002"		\$45,550	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"#133480"		\$46,986	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1659103"		\$52,153	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"PO # 20N0379"		\$57,897	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"19N0850"		\$69,248	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		, ,	, , ,		, , ,
"GT-141453 DTD 05182020"		\$74,070	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"601036"		\$78,657	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"201201-GTRC"		\$91,292	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"20N0565"		\$96,900	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		700,000	,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7-)
"PO20-00435/TO01/TO033"		\$100,574	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"601052"		\$104,381	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"60061601"		\$119,275	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CP0065524"		\$123,461	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1648767"		\$133,954	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"AGMT. 142585 DATED 04-		\$133,334	\$3,003,003	NESE/WEI/WO DEVELOT WEIV	71,233,031,371
07-2020"		\$159,893	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"220072A"		\$177,947	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"602003"		\$178,209	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"NNH17CC02Z"		\$201,874	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"AWARD_CONTRACT_LINE-3-					
20750"		\$434,199	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"S900016BAH"		\$492,608	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2019-0123"		\$511,303	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$557,212	\$1,967,723	\$5,669,609	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$169,556	\$349,951	\$349,951	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"30495"		-\$250	\$1,035,524	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"M2000595/S200508"		\$7,900	\$1,035,524	RESEARCH AND DEVELOPMENT	\$1,233,831,971
,		, ,	, , ,		. , , ,
"ORSP-21-216812-01A"		\$9,339	\$1,035,524	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"63828383-17"		\$9,895	\$1,035,524	N/A	\$0
03028303-17		79,093	71,033,324	IV/A	70
"201093-GTRC"		\$10,585	\$1,035,524	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"NNX15AP85H"		\$15,081	\$1,035,524	N/A	\$0
"601067-GT"		\$66,660	\$1,035,524	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"201078-GTRC"		\$83,479	\$1,035,524	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"301001-GTRC"		\$106,404	\$1,035,524	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	4407.00	\$117,581	\$1,035,524	N/A	\$(
	\$107,306	\$608,850	\$1,035,524	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$82,263	\$82,263	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1607060Z4"		\$117,284	\$2,092,211	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"A19-2477-S002"		\$128,435	\$2,092,211	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$218,470	\$2,092,211	N/A	\$0

Fodovel Australian Annos / Dromana Title	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
SPACE TECHNOLOGY	43.012		UNIVERSITY OF CALIFORNIA, DAVIS
SPACE TECHNOLOGY	43.012		
T. T.	40.00		SPACE TELESCOPE SCIENCE
THE MISSING LINK IN MASSIVE BINARY STAR EVOLUTION	43.RD	SP00014000	INSTITUTE KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
APERIODIC LATTICE DESIGN	43.RD	80NSSC20C0021	FOUNDATION
TOTAL NATIONAL AERONAUTICS & SPACE ADMINISTRATION			
INSTITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOWMENT FOR THE HUMANITIES			
PROMOTION OF THE ARTS GRANTS TO ORGANIZATIONS AND			
INDIVIDUALS	45.024		ARTS MIDWEST
PROMOTION OF THE ARTS GRANTS TO ORGANIZATIONS AND INDIVIDUALS	45.024		
COVID - 19 - PROMOTION OF THE ARTS PARTNERSHIP AGREEMENTS	45.025	COVID - 19	
			KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE
PROMOTION OF THE HUMANITIES FEDERAL/STATE PARTNERSHIP	45.129		FOUNDATION
COVID - 19 - PROMOTION OF THE HUMANITIES FEDERAL/STATE	45.400	001/15 40	050000000000000000000000000000000000000
PARTNERSHIP	45.129	COVID - 19	GEORGIA HUMANITIES COUNCIL
COVID - 19 - PROMOTION OF THE HUMANITIES FEDERAL/STATE PARTNERSHIP	45.129	COVID - 19	GEORGIA HI IMANITIES COLINCII
PROMOTION OF THE HUMANITIES CHALLENGE GRANTS	45.129	COVID - 19	GEORGIA HUMANITIES COUNCIL
PROMOTION OF THE HUMANITIES CHALLENGE GRANTS PROMOTION OF THE HUMANITIES CHALLENGE GRANTS	45.130		
THOMOTON OF THE HOWARTHES CHALLENGE GRANTS	43.130		
PROMOTION OF THE HUMANITIES DIVISION OF PRESERVATION AND ACCESS	45.149		
PROMOTION OF THE HUMANITIES FELLOWSHIPS AND STIPENDS	45.160		
PROMOTION OF THE HUMANITIES RESEARCH	45.161		
PROMOTION OF THE HUMANITIES TEACHING AND LEARNING RESOURCES AND			
CURRICULUM DEVELOPMENT	45.162		
			SOUTH CAROLINA DEPARTMENT OF
PROMOTION OF THE HUMANITIES OFFICE OF DIGITAL HUMANITIES	45.169		NATURAL RESOURCES
PROMOTION OF THE HUMANITIES OFFICE OF DIGITAL HUMANITIES	45.169		NATONAL NESOUNCES
PROMOTION OF THE HUMANITIES OFFICE OF DIGITAL HUMANITIES	45.169		
MUSEUMS FOR AMERICA	45.301		
GRANTS TO STATES	45.310		
			ATLANTA-FULTON COUNTY ZOO,
NATIONAL LEADERSHIP GRANTS	45.312		INC.
LAURA BUSH 21ST CENTURY LIBRARIAN PROGRAM	45.313		
TOTAL INSTITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOWMENT FOR THE HUMANITIES			
NATIONAL SCIENCE FOUNDATION			
ENGINEERING	47.041		HARVARD UNIVERSITY
ENGINEERING	47.041		UNIVERSITY OF TEXAS AT AUSTIN
ENGINEERING	47.041		BOSTON COLLEGE KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE
ENGINEERING	47.041		FOUNDATION
	47.041		TOUNDATION
	47.041		UNIVERSITY OF CALIFORNIA
ENGINEERING	47.041		UNIVERSITY OF CALIFORNIA
	47.041 47.041		UNIVERSITY OF CALIFORNIA UNIVERSITY OF MASSACHUSETTS
ENGINEERING			

Identifying Number Assigned By Funder Pass-Through Entity	Total Amount Provided to Sub-Recipients	Federal Expenditures	Federal Program Total	Cluster Name	Cluster Total
"80NSSC19K1052"		\$339,108	\$2,092,211	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$23,097	\$1,288,914	\$2,092,211	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CON011669"		\$21,530	\$56,871	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"80NSSC20C0021"		\$35,341	\$56,871	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$2,794,492	\$20,838,572			
"26699"		\$10,980	\$67,925	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$16,795	\$56,945	\$67,925	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$1,253,326	\$1,253,326	\$1,253,326	N/A	\$0
"SO-263604-19"		\$4,810	\$39,498	N/A	\$0
"RGEHC0001210401"		\$5,000	\$39,498	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SO-263604-19"		\$29,688	\$39,498	N/A	\$0
30-203004-13		\$1,313	\$4,019	N/A	\$0
	\$2,705	\$2,706	\$4,019	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$134,422	\$134,422	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$78,131	\$78,131	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$1,195	\$25,354	\$25,354	N/A	\$0
		\$330	\$330	N/A	\$0
		4	4.4.		4
"SCNDR FY2021040"	ć0.25C	\$1,625	\$131,786	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$9,356	\$38,308 \$91,853	\$131,786 \$131,786	N/A RESEARCH AND DEVELOPMENT	\$0 \$1,233,831,971
		-\$269,704	-\$269,704	N/A	\$1,233,031,371
		\$4,765,421	\$4,765,421	N/A	\$0
,,		4	4		4
"GREATAPE"	\$40,618	<i>\$18,915</i> \$68,791	<i>\$18,915</i> \$68,791	RESEARCH AND DEVELOPMENT N/A	<i>\$1,233,831,971</i> \$0
	¥10,010	Ç00,731	400,731	Nyx	Ų.
	\$1,323,995	\$6,318,214			
"124050-5104116"		-\$63,689	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"UTA15-001072"		-\$8,089	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CON010790"		\$2,041	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SUB00001797"		\$6,648	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CON012695"		\$6,713	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"S5800041772B5GT"		\$9,594	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CON013861"		\$10,651	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
ENGINEERING	47.041	(0,000,000,000,000,000,000,000,000,000,	UNIVERSITY OF CALIFORNIA
ENGINEERING	47.041		UNIVERSITY OF DELAWARE
ENGINEERING	47.041		UNIVERSITY OF MASSACHUSETTS
ENGINEELIING	47.041		UNIVERSITY OF ILLINOIS AT
ENGINEERING	47.041		URBANA-CHAMPAIGN
ENGINEERING	47.041		UNIVERSITY OF MASSACHUSETTS
			UNIVERSITY OF ILLINOIS AT
ENGINEERING	47.041		URBANA-CHAMPAIGN
ENGINEERING	47.041		VERUS RESEARCH
ENGINEERING	47.041		UNIVERSITY OF MASSACHUSETTS
ENGINEERING	47.041		UNIVERSITY OF CALIFORNIA
ENGINEERING	47.041		UNIVERSITY OF UTAH
ENGINEERING	47.041		NEW YORK UNIVERSITY
ENGINEERING	47.041		COLORADO STATE UNIVERSITY
ENGINEERING	47.041		SILPARA TECHNOLOGIES, LLC
			KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
ENGINEERING	47.041		FOUNDATION
ENGINEERING	47.041		UNIVERSITY OF WASHINGTON
			UNIVERSITY OF ILLINOIS AT
ENGINEERING	47.041		URBANA-CHAMPAIGN
ENGINEERING	47.041		ARIZONA STATE UNIVERSITY
ENGINEERING	47.041		INTELLIGENT DOTS, LLC
ENGINEERING	47.041		UNIVERSITY OF MASSACHUSETTS
ENGINEERING	47.041		TEACHERS COLLEGE, COLUMBIA UNIVERSITY
ENGINEERING	47.041		UNIVERSITY OF CENTRAL FLORIDA
ENGINEERING	47.041		GEORGE WASHINGTON UNIVERSITY
ENGINEERING	47.041		UNIVERSITY OF NEBRASKA-LINCOLN
ENGINEERING	47.041		
ENGINEERING	47.041		SEARCH TECHNOLOGIES
ENGINEERING	47.041		BSCS SCIENCE LEARNING
			NORTH CAROLINA STATE
ENGINEERING	47.041		UNIVERSITY
FNCINEEDING	47.044		MASSACHUSETTS INSTITUTE OF
ENGINEERING	47.041		TECHNOLOGY
ENGINEERING	47.041		PRINCETON UNIVERSITY
ENGINEERING	47.041	COVID 10	COLUMBIA UNIVERSITY
COVID - 19 - ENGINEERING	47.041	COVID - 19	GEORGIA SOUTHERN UNIVERSITY
ENCINEEDING	47.044		RESEARCH AND SERVICE
ENGINEERING	47.041		FOUNDATION, INC. MASSACHUSETTS INSTITUTE OF
ENGINEERING	47.041		
ENGINEERING ENGINEERING	47.041 47.041		TECHNOLOGY ARIZONA STATE UNIVERSITY
ENGINEERING	47.041 47.041		ANIZONA STATE UNIVERSITY
DIMILIMING	47.041		NATIONAL COMMISSION ON
MATHEMATICAL AND DUVCICAL CCIENCES	47.040		TEACHING & AMERICAS FUTURE
MATHEMATICAL AND PHYSICAL SCIENCES	47.049		(NCTAF) KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
MATHEMATICAL AND DHYSICAL SCIENCES	47.049		
MATHEMATICAL AND PHYSICAL SCIENCES	47.049		FOUNDATION UNIVERSITY OF WISCONSIN -
MATHEMATICAL AND PHYSICAL SCIENCES	47.049		MADISON

Identifying Number Assigned By Funder	Total Amount		Federal		
Pass-Through	Provided to	Federal	Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
"CON014570"		\$11,306	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"57824"		\$12,077	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"S58000041772GT4"		\$13,667	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"092559-17315"		\$16,517	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"S5800041772C3GT"		\$16,582	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"083276-18339 (AC291)"		\$18,780	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"145275"		\$21,839	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
143273		721,833	720,331,030	RESEARCH AND DEVELOPMENT	71,255,651,971
"S58000041772GT5"		\$22,623	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"9367"		\$25,780	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"145393"		\$30,000	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CON012691"		\$30,966	\$28.531.698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"G0097314"		\$36,447	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
GTRC RA 141789 DTD 05-28-		φοσ,	ψ20,001,000	NEGET INC. TO THE SET ELECT TH	ψ1)200)001)311
2020"		\$38,000	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1705924"		\$38.744	¢20 F21 600	DECEARCH AND DEVELOPMENT	\$1,233,831,971
"UWSC10741 BPO NO.		<i>\$30,744</i>	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,631,971
34658"		\$39,374	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"101397-18222"		\$39,564	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"17-098"		\$45,820	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"AWD00011261"					
AWD00011261		\$59,117	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"S58000041772GT6"		\$61,988	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"513147"		\$64,114	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"16406249-02"		\$64,426	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,972
"18-S10"		\$72,190	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"25-0521-0210-003"		\$73,604	\$28,531,698	RESEARCH AND DEVELOPMENT	¢1 222 021 071
23-0321-0210-003		· · ·			\$1,233,831,971
#ST: STD C 22 4#		\$73,862	\$28,531,698	N/A	\$1
"STI-GTRC-20-1"		\$75,913	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2020-20"		\$87,127	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2017-2662-01"		\$122,397	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"5710003973"		\$124,326	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SUB0000385"		\$145,428	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1(GG13910)"		\$146,101	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
1(0013310)	\$37,916		\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$37,310	\$165,510	\$20,331,096	RESEARCH AIND DEVELOPIVIENT	\$1,255,651,97
"63828383-19"		\$173,867	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,97
03020303-13		£173,007	J20,J31,U36	NESCANCITAIND DEVELOPINIEN	71,233,031,97.
"5710003968"		\$325,377	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"15-741"		\$579,690	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$4,126,852	\$25,694,706	\$28,531,698	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON012161"		-\$26,594	\$20,725,432	RESEARCH AND DEVELOPMENT	\$1,233,831,971
					, , , , , , ,
		-\$16	\$20,725,432	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1709263"		710	ψ20), 20) i02	NESEMINENT IND DEVELOT MENT	71,233,031,371

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
MATHEMATICAL AND PHYSICAL SCIENCES	47.049		AMERICAN PHYSICAL SOCIETY
MATHEMATICAL AND PHYSICAL SCIENCES	47.049		KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE FOUNDATION
			ASSOCIATION OF UNIVERSITY
MATHEMATICAL AND PHYSICAL SCIENCES	47.049		CENTERS ON DISABILITIES
MATHEMATICAL AND PHYSICAL SCIENCES	47.049		VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY
AAATUGAAATIGAL AAND DUWGGAL CCIGALCCC	47.040		MATHEMATICAL ASSOCIATION OF
MATHEMATICAL AND PHYSICAL SCIENCES	47.049		AMERICA VENNISCANA STATE LINUVERSITY
MATHEMATICAL AND PHYSICAL SCIENCES	47.049		KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE FOUNDATION
			WORCESTER POLYTECHNIC
MATHEMATICAL AND PHYSICAL SCIENCES	47.049		INSTITUTE
MATHEMATICAL AND PHYSICAL SCIENCES	47.049		KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE FOUNDATION KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
MATHEMATICAL AND PHYSICAL SCIENCES	47.049		FOUNDATION
WINTERWINTED ET TITSTER E SCIENCES	47.043		KENNESAW STATE UNIVERSITY
MATHEMATICAL AND PHYSICAL SCIENCES	47.049		RESEARCH AND SERVICE FOUNDATION
			KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
MATHEMATICAL AND PHYSICAL SCIENCES	47.049		FOUNDATION
MATHEMATICAL AND PHYSICAL SCIENCES	47.049		CORNELL UNIVERSITY
MATHEMATICAL AND PHYSICAL SCIENCES	47.049		KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE FOUNDATION
			KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
MATHEMATICAL AND PHYSICAL SCIENCES	47.049		FOUNDATION
MATHEMATICAL AND PHYSICAL SCIENCES	47.049		KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE FOUNDATION
			UNIVERSITY OF WISCONSIN -
MATHEMATICAL AND PHYSICAL SCIENCES	47.049		MADISON
			KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE
MATHEMATICAL AND PHYSICAL SCIENCES	47.049		FOUNDATION
MATHEMATICAL AND PHYSICAL SCIENCES	47.049		UNIVERSITY OF WISCONSIN - MADISON
MATHEMATICAL AND PHYSICAL SCIENCES MATHEMATICAL AND PHYSICAL SCIENCES	47.049		EMORY UNIVERSITY
WATHEWATICAL AND PHYSICAL SCIENCES	47.043		GEORGIA SOUTHERN UNIVERSITY
MATHEMATICAL AND PHYSICAL SCIENCES	47.049		RESEARCH AND SERVICE FOUNDATION, INC.
MATHEMATICAL AND PHYSICAL SCIENCES	47.049		VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY
MATHEMATICAL AND PHYSICAL SCIENCES	47.049		
GEOSCIENCES	47.050		FLORIDA STATE UNIVERSITY
GEOSCIENCES	47.050		UNIVERSITY OF CENTRAL FLORIDA
GEOSCIENCES	47.050		COLUMBIA UNIVERSITY
GEOSCIENCES	47.050		NEW YORK UNIVERSITY
COVID - 19 - GEOSCIENCES	47.050	COVID - 19	UNIVERSITY OF WISCONSIN - MADISON
GEOSCIENCES	47.050		UNIVERSITY OF NEW HAMPSHIRE

Identifying Number Assigned By Funder Pass-Through Entity	Total Amount Provided to Sub-Recipients	Federal Expenditures	Federal Program Total	Cluster Name	Cluster Total
"PT-004-2020"	•	\$2,818	\$20,725,432	N/A	\$0
"1560329"		\$7,729	\$20,725,432	N/A	\$0
"CON011895"		\$7,899	\$20,725,432	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"480438-19105"		\$9,391	\$20,725,432	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"897"		\$13,255	\$20,725,432	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1830489"		\$16,121	\$20,725,432	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"10825-GR"		\$16,775	\$20,725,432	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2012078"		\$18,939	\$20,725,432	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1820818"		\$23,063	\$20,725,432	N/A	\$0
"1903462"		\$26,666	\$20,725,432	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1806519"		\$30,593	\$20,725,432	N/A	\$0
"75548-20733"		\$32,145	\$20,725,432	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"RG173-G3"		\$34,856	\$20,725,432	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1820795"		\$48,039	\$20,725,432	N/A	\$0
"CHE-1855583"		\$51,260	\$20,725,432	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"0000000841"		\$61,318	\$20,725,432	RESEARCH AND DEVELOPMENT	\$1,233,831,971
0000000841		\$61,318	\$20,725,432	RESEARCH AIND DEVELOPINIENT	\$1,233,631,971
"4000222"		604.022	620 7 25 422	A1 / A	ćo.
"1800332"		\$94,922	\$20,725,432	N/A	\$0
"0000000293"		\$128,451	\$20,725,432	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"A373696"		\$389,272	\$20,725,432	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"63828383-20"		\$519,656	\$20,725,432	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"48050419105"	Å4 222 2.12	\$1,350,401	\$20,725,432	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"R02162"	\$1,323,243	\$17,867,734 <i>-\$17,915</i>	\$20,725,432 \$8,597,710	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,971 \$1,233,831,971
"				05054004444055555555555	
"CON007253" "101BGG00939304"		\$533 \$1,579	\$8,597,710 \$8,597,710	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,971 \$1,233,831,971
"F0691-01"		\$2,947	\$8,597,710	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"847"		\$8,552	\$8,597,710	RESEARCH AND DEVELOPMENT	\$1,233,831,971
047		70,332	70,337,710	NESEARCH AND DEVELOPIVIENT	71,233,031,3/1
"#14-059"		\$13,456	\$8,597,710	RESEARCH AND DEVELOPMENT	\$1,233,831,971

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
GEOSCIENCES	47.050		UNIVERSITY OF NEW HAMPSHIRE
GEOSCIENCES	47.030		BIGELOW LABORATORY FOR OCEAN
GEOSCIENCES	47.050		SCIENCES
			UNIVERSITY OF CALIFORNIA, SAN
GEOSCIENCES	47.050	001/15 40	DIEGO
COVID - 19 - GEOSCIENCES GEOSCIENCES	47.050 47.050	COVID - 19	DUKE UNIVERSITY
GEOSCIENCES	47.050		DUKE UNIVERSITY DUKE UNIVERSITY
GEOGGENCES	47.030		UNIVERSITY OF NORTH CAROLINA
GEOSCIENCES	47.050		WILMINGTON
			UNIVERSITY OF WISCONSIN -
GEOSCIENCES	47.050		MADISON
			GEORGIA SOUTHERN UNIVERSITY
GEOSCIENCES	47.050		RESEARCH AND SERVICE FOUNDATION, INC.
GEOSCIENCES	47.050		TOONDATION, INC.
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		UNIVERSITY OF NORTH CAROLINA
			ATMOSPHERIC TECHNOLOGY
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		SERVICES COMPANY
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		THE CONCORD CONSORTIUM UNIVERSITY OF ILLINOIS AT
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		URBANA-CHAMPAIGN
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		UNIVERSITY OF NOTRE DAME
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		UNIVERSITY OF CALIFORNIA, DAVIS
			REGENTS OF THE UNIVERSITY OF
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		CALIFORNIA
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070 47.070		CORNELL UNIVERSITY UNIVERSITY OF ALABAMA
CONFOTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		FOUNDATION
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		UNIVERSITY OF WASHINGTON
			MASSACHUSETTS INSTITUTE OF
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		TECHNOLOGY
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070 47.070		UNIVERSITY OF TENNESSEE UNIVERSITY OF CALIFORNIA
COMPOTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		FOUNDATION
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		UNIVERSITY OF PENNSYLVANIA
			ROANE STATE COMMUNITY
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING COVID - 19 - COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070	COVID 10	COLLEGE
COVID - 19 - COMPUTER AND INFORMATION SCIENCE AND ENGINEERING COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070 47.070	COVID - 19	UNIVERSITY OF ARIZONA
COINT OTER AIND IN ORINIATION SCIENCE AIND ENGINEERING	47.070		FLORIDA INTERNATIONAL
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		UNIVERSITY
			UNIVERSITY OF WISCONSIN-
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		MILWAUKEE
			KENNESAW STATE UNIVERSITY
COMMUTED AND INFORMATION COURSES AND ENGINEERING	47.070		RESEARCH AND SERVICE
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		FOUNDATION
			VIRGINIA POLYTECHNIC INSTITUTE
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		AND STATE UNIVERSITY
			UNIVERSITY OF ILLINOIS AT
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		URBANA-CHAMPAIGN
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		OHIO STATE UNIVERSITY
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		EMORY UNIVERSITY

ldentifying Number Assigned By Funder Pass-Through	Total Amount Provided to	Federal	Federal Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
"14062"		\$27,423	\$8,597,710	RESEARCH AND DEVELOPMENT	\$1,233,831,97.
"BLOS 19-004"		\$35,415	\$8,597,710	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"83829300"		\$55,901	\$8,597,710	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$1,283	\$59,079	\$8,597,710	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"#14-NSF-1074"		\$75,108	\$8,597,710	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"14NSF1076"		\$90,139	\$8,597,710	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"5779101806"		\$91,721	\$8,597,710	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"000000186"		\$97,929	\$8,597,710	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"63828383-21"		\$111,987	\$8,597,710	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$272,472	\$7,943,856	\$8,597,710	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"5115818"		-\$13,588	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97
#220.04#		CC 454	640.024.247	DECEMBELL AND DELICIONATIVE	ć4 222 024 0 7
"238-01"		-\$6,451	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"318.19.01"		-\$125	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"#083276-17228"		\$279	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"202917GT"		\$505	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A18-0727-S001"		\$1,237	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"KK1715"		\$2,244	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"72954-10595"		\$4,162	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A19-0027-S001"		\$11,485	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97
//		4.2.22	4.4.4.		4
"2100483"		\$13,058	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"UWSC9939"		\$13,345	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CCF-1231216"		\$17,344	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A19-0308-S001"		\$19,666	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"00010542"		\$20,000	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"IIS-1850438"		\$20,399	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON007710"		\$22,038	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97
CO/100//10		<i>\$22,030</i>	ψ10,021,317	NESE/ INCITATION DEVELOT WEIGH	ψ1,233,031,37
"143837"		\$22,295	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$25,316	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"3034120"		\$29,857	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97
800004907-02UG/000015"		\$31,604	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97
'183405342/144AAC6327"		\$35,086	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"1718377"		\$36,397	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"480366-19034"		\$38,585	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"# 002276 17220"		¢42.000	¢10 021 217	DECEADOU AND DEVELOPMENT	¢1 222 021 03
"# 083276-17230"		\$42,099	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97
SUBAWARD NO 60077016"		\$48,152	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A439111"		\$48,324	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,97

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
			MASSACHUSETTS INSTITUTE OF
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		TECHNOLOGY
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		BARNARD COLLEGE
	47.070		UNIVERSITY OF ILLINOIS AT
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		URBANA-CHAMPAIGN
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		VANDERBILT UNIVERSITY
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		UNIVERSITY OF TEXAS AT AUSTIN
			VIRGINIA POLYTECHNIC INSTITUTE
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		AND STATE UNIVERSITY
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		UNIVERSITY OF CALIFORNIA
			UNIVERSITY OF ILLINOIS AT
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		URBANA-CHAMPAIGN
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING	47.070		
BIOLOGICAL SCIENCES	47.074		GEORGE WASHINGTON UNIVERSITY
BIOLOGICAL SCILINCLS	47.074		GEORGE WASHINGTON ONVERSITY
BIOLOGICAL SCIENCES	47.074		UNIVERSITY OF NORTH CAROLINA
BIOLOGICAL SCIENCES	47.074		UNIVERSITY OF CONNECTICUT
BIOLOGICAL SCIENCES	47.074		SWARTHMORE COLLEGE
			KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
BIOLOGICAL SCIENCES	47.074		FOUNDATION
BIOLOGICAL SCIENCES	47.074		
BIOLOGICAL SCIENCES	47.074		UNIVERSITY OF KENTUCKY
BIOLOGICAL SCIENCES	47.074		UNIVERSITY OF ARKANSAS
			KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE
BIOLOGICAL SCIENCES	47.074		FOUNDATION
BIOLOGICAL SCIENCES	47.074		ARIZONA STATE UNIVERSITY
BIOLOGICAL SCIENCES	47.074		UNIVERSITY OF TENNESSEE
BIOLOGICAL SCIENCES	47.074		PRINCETON UNIVERSITY
BIOLOGICAL SCIENCES	47.074		UNIVERSITY OF ARIZONA
BIOLOGICAL SCIENCES	47.074		DUKE UNIVERSITY
BIOLOGICAL SCIENCES	47.074		LINUVERSITY OF CALIFORNIA DAVIS
BIOLOGICAL SCIENCES BIOLOGICAL SCIENCES	47.074		UNIVERSITY OF CALIFORNIA, DAVIS UNIVERSITY OF WASHINGTON
BIOLOGICAL SCIENCES	47.074		UNIVERSITY OF WASHINGTON UNIVERSITY OF PUERTO RICO, RÍO
BIOLOGICAL SCIENCES	47.074		PIEDRAS
BIOLOGICAL SCIENCES BIOLOGICAL SCIENCES	47.074		CORNELL UNIVERSITY
BIOLOGICI LE SCILIVELS	47.074		KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
BIOLOGICAL SCIENCES	47.074		FOUNDATION
BIOLOGICAL SCIENCES	47.074		GEORGE MASON UNIVERSITY
			GEORGIA SOUTHERN UNIVERSITY RESEARCH AND SERVICE
BIOLOGICAL SCIENCES	47.074		FOUNDATION, INC.
DIOLOGICAL CCIPACTO	47.074		CARY INSTITUTE OF ECOSYSTEM
BIOLOGICAL SCIENCES	47.074		STUDIES COLD SPRING HARBOR
BIOLOGICAL SCIENCES	47.074		LABORATORY
BIOLOGICAL SCIENCES	47.074		NOBLE RESEARCH INSTITUTE, LLC
COVID - 19 - BIOLOGICAL SCIENCES	47.074	COVID - 19	
BIOLOGICAL SCIENCES	47.074		
COCIAL DELIANIODAL AND ECONOMIC COUNTER	47.075		KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE
SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	47.075		FOUNDATION GEORGIA SOUTHERN UNIVERSITY RESEARCH AND SERVICE
SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	47.075		FOUNDATION, INC.

Identifying Number Assigned By Funder	Total Amount		Federal		
Pass-Through	Provided to	Federal	Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
"5710004130"		¢E0 270	¢10 021 217	RESEARCH AND DEVELOPMENT	¢1 222 021 i
"GT-1828168"		\$50,370 \$56,725	\$18,021,317 \$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831, \$1,233,831,
G1-1020100		\$30,723	\$10,021,317	RESEARCH AIND DEVELOPINENT	\$1,233,031,
"#083276-17340"		\$60,657	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,
"UNIV61111"		\$84,942	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,
"UTA19-001218"		\$96,971	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,
"480073-19034"		\$98,911	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,
"KK1926"		\$144,073	\$18,021,317	RESEARCH AND DEVELOPMENT	\$1,233,831,
"083842-16099"		¢222 611	\$18,021,317	DESCRIPCIO AND DEVELOPMENT	ć1 222 021
083842-16099	\$1,096,962	<i>\$223,611</i> \$16,721,744	\$18,021,317	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831, \$1,233,831,
	\$1,050,502	\$10,721,744	\$10,021,317	RESEARCH AND DEVELOPIVIENT	\$1,233,031 _,
"18M84"		-\$28,493	\$15,023,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
"510248"		-\$11,326	\$15,023,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
09/01 UTA17-000642"		\$2,278	\$15,023,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
"202102"		\$3,206	\$15,023,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
"2018204"		\$4,771	\$15,023,465	N/A	
		\$5,942	\$15,023,465	N/A	
3200001962-19-011"		\$8,885	\$15,023,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
"UA2020114"		\$10,775	\$15,023,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
"2042814"		\$13,754	\$15,023,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON010575"		\$21,499	\$15,023,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
"A160172S004"		\$41,493	\$15,023,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
"SUB0000263"		\$44,741	\$15,023,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
"531847"		\$50,678	\$15,023,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
"333-2410"		\$61,075	\$15,023,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
"A180983S003"		\$64,954	\$15,023,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
"11361"		\$76,633	\$15,023,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
		, .,	, -,,		, ,, ,
"2019-002"		\$85,330	\$15,023,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
"T.O. 1"		\$98,790	\$15,023,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
"1714778"		\$114,914	\$15,023,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
"E2050637"		\$123,413	\$15,023,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
"63828383-22"		\$128,932	\$15,023,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
"3354200000000"		\$168,815	\$15,023,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
"52580115 PO920"		\$175,909	\$15,023,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
"2020400604UGRF"		\$180,024	\$15,023,465	RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$514,531	\$15,023,465	RESEARCH AND DEVELOPMENT	\$1,233,831
	\$1,124,732	\$13,061,942	\$15,023,465	RESEARCH AND DEVELOPMENT	\$1,233,831
"10F2404"		65.46	¢2.664.226	DECEARCH AND DEVELOPMENT	ć4 222 02 -
"1853191"		-\$546	\$3,664,338	RESEARCH AND DEVELOPMENT	\$1,233,831,
"62020202 22"		60.042	62.664.332	DECEARCH AND DEVELOPMENT	¢1 222 024
"63828383-23"		\$8,042	\$3,664,338	RESEARCH AND DEVELOPMENT	\$1,233,831,

		Additional	
	Federal	Award	Name of Funder
	CFDA	Identification	Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
			UNIVERSITY CORPORATION FOR
SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	47.075		ATMOSPHERIC RESEARCH
SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	47.075		FLORIDA ATLANTIC UNIVERSITY
SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	47.075		DARTMOUTH COLLEGE
SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	47.075		UNIVERSITY OF MINNESOTA
SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	47.075		EMORY UNIVERSITY UNIVERSITY OF NORTH CAROLINA
SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	47.075		AT CHARLOTTE
SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	47.075		UNIVERSITY OF MICHIGAN
SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	47.075		SEARCH TECHNOLOGIES
SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	47.075		UNIVERSITY OF CALIFORNIA, DAVIS
SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	47.075		ARIZONA STATE UNIVERSITY
SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	47.075		EMORY UNIVERSITY
COVID - 19 - SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	47.075	COVID - 19	
SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	47.075		
EDUCATION AND HUMAN RESOURCES	47.076		UNIVERSITY OF COLORADO
EDUCATION AND HOMAN RESOURCES	47.070		KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
EDUCATION AND HUMAN RESOURCES	47.076		FOUNDATION
EDUCATION AND HUMAN RESOURCES	47.076		NORTHWESTERN UNIVERSITY
EDUCATION AND HUMAN RESOURCES	47.076		UNIVERSITY OF TEXAS AT AUSTIN
EDUCATION AND HUMAN RESOURCES	47.076		INDIANA UNIVERSITY
EDUCATION AND HUMAN RESOURCES	47.076		UNIVERSITY OF NORTH DAKOTA
EDUCATION AND HUMAN RESOURCES	47.076		ARIZONA STATE UNIVERSITY
EDUCATION AND HUMAN RESOURCES	47.076		AUBURN UNIVERSITY
EDUCATION AND HUMAN RESOURCES	47.076		STATE OF MINNESOTA
			THE RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW
EDUCATION AND HUMAN RESOURCES	47.076		YORK
EDUCATION AND WHAT DESCRIPTION	47.076		RESEARCH AND SERVICE
EDUCATION AND HUMAN RESOURCES	47.076		FOUNDATION KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
EDUCATION AND HUMAN RESOURCES	47.076		FOUNDATION
			KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE
EDUCATION AND HUMAN RESOURCES	47.076		FOUNDATION
			KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
EDUCATION AND HUMAN RESOURCES	47.076		FOUNDATION
EDUCATION AND HUMAN RESOURCES	47.076		UNIVERSITY OF NEW MEXICO
EDUCATION AND HUMAN RESOURCES	47.076		UNIVERSITY OF MARYLAND
EDUCATION AND HOWAR RESOURCES	47.070		VIRGINIA POLYTECHNIC INSTITUTE
EDUCATION AND HUMAN RESOURCES	47.076		AND STATE UNIVERSITY
			UNIVERSITY OF ILLINOIS AT
EDUCATION AND HUMAN RESOURCES	47.076		URBANA-CHAMPAIGN
EDUCATION AND HUMAN RESOURCES	47.076		MICHIGAN STATE UNIVERSITY
EDUCATION AND HUMAN RESOURCES	47.076		WESTERN MICHIGAN UNIVERSITY
EDUCATION AND HUMAN RESOURCES	47.076		ARIZONA STATE UNIVERSITY
EDUCATION AND HUMAN RESOURCES	47.076		CLEMSON UNIVERSITY
			AMERICAN EDUCATIONAL
EDUCATION AND HUMAN RESOURCES	47.076		RESEARCH ASSOCIATION KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
EDUCATION AND HUMAN RESOURCES	47.076		FOUNDATION
EDUCATION AND HUMAN RESOURCES	47.076		FLORIDA A&M UNIVERSITY
EDUCATION AND HUMAN RESOURCES	47.076		AMERICAN CHEMICAL SOCIETY
EDUCATION AND HUMAN RESOURCES	47.076		CLARK ATLANTA UNIVERSITY

Identifying Number Assigned By Funder	Total Amount		Federal		
Pass-Through	Provided to	Federal	Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
"SUBAWD001498"		\$12,557	\$3,664,338	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON013476"		\$13,993	\$3,664,338	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON012874"		\$19,574	\$3,664,338	RESEARCH AND DEVELOPMENT	\$1,233,831,
"H007008401"		\$36,462	\$3,664,338	RESEARCH AND DEVELOPMENT	\$1,233,831,
"#A108033"		\$36,832	\$3,664,338	RESEARCH AND DEVELOPMENT	\$1,233,831,
"2019005801UGA"		\$42,987	\$3,664,338	RESEARCH AND DEVELOPMENT	\$1,233,831,
"SUBK00010837"		\$46,676	\$3,664,338	RESEARCH AND DEVELOPMENT	\$1,233,831,
"STI-GTRC-18-1"		\$68,076	\$3,664,338	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON007633"		\$88,828	\$3,664,338	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON010101"		\$102,869	\$3,664,338	RESEARCH AND DEVELOPMENT	\$1,233,831,
"T610300"		\$119,720	\$3,664,338	RESEARCH AND DEVELOPMENT	\$1,233,831,
	\$10,378	\$212,299	\$3,664,338	RESEARCH AND DEVELOPMENT	\$1,233,831,
	\$417,300	\$2,855,969	\$3,664,338	RESEARCH AND DEVELOPMENT	\$1,233,831
"1554503"		-\$3,010	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
"A19-0417-S001"		-\$700	\$21,355,404	N/A	
P0047261PROJ0013382"		<i>\$2,385</i>	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
W		4	44		4
"UTA18001293"		\$4,371	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
"BL4842404UGA"		\$4,479	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON014316"		\$4,970	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
"28149"		\$6,232	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
"30491"		\$6,947	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
"P0032617"		\$8,474	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
"36692"		\$9,215	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
"1725940"		\$9,389	\$21,355,404	N/A	
"1723586"		\$10.254	\$21.355.404	RESEARCH AND DEVELOPMENT	\$1,233,831,
1,23300		Ÿ10,234	421,333,404	NESE/MENT/MAD DEVELOT MENT	<i>\$1,233,031,</i>
"2050469"		\$11,447	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
"DUE1949925"		\$11,684	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
"03633987DK"		\$11,724	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
"87946-Z3550203"		\$11,821	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
"28151"		\$12,227	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
"097202-17661"		\$13,101	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
"RC106444A"		\$13,304	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON006494"		\$13,868	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
"17-231"		\$14,481	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
"22522100000000"		\$16,686	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
"RAERA0001122501"		\$18,652	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
"1711425"		\$18,774	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
"C-5072"		\$19,400	\$21,355,404	N/A	
'AGMT DTD 6/17/2020"		\$25,729	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,
"HRD-1826797"		\$27,242	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,

		Additional	
	Federal	Award	Name of Funder
	CFDA	Identification	Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
EDUCATION AND HUMAN RESOURCES	47.076	(-p7	UNIVERSITY OF COLORADO
			KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
EDUCATION AND HUMAN RESOURCES	47.076		FOUNDATION
			KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
EDUCATION AND HUMAN RESOURCES	47.076		FOUNDATION
EDUCATION AND HUMAN RESOURCES	47.076		CLARK ATLANTA UNIVERSITY
EDUCATION AND HUMAN RESOURCES	47.076		MICHIGAN STATE UNIVERSITY
EDUCATION AND HUMAN RESOURCES	47.076		TERC, INC.
			KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
EDUCATION AND HUMAN RESOURCES	47.076		FOUNDATION
EDUCATION AND HUMAN RESOURCES	47.076		AMERICAN CHEMICAL SOCIETY
EDUCATION AND HUMAN RESOURCES	47.076		NORTHWESTERN UNIVERSITY
			KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
EDUCATION AND HUMAN RESOURCES	47.076		FOUNDATION
EDUCATION AND HUMAN RESOURCES	47.076		FLORIDA STATE UNIVERSITY
EDUCATION AND HUMAN RESOURCES	47.076		UNIVERSITY OF UTAH
			UNIVERSITY OF SOUTHERN
EDUCATION AND HUMAN RESOURCES	47.076		CALIFORNIA
			KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
EDUCATION AND HUMAN RESOURCES	47.076		FOUNDATION
			KENNESAW STATE UNIVERSITY
EDUCATION AND UNIMAN DECOURCES	47.076		RESEARCH AND SERVICE
EDUCATION AND HUMAN RESOURCES	47.076		FOUNDATION
			KENNESAW STATE UNIVERSITY
EDUCATION AND HUMAN RECOURCES	47.076		RESEARCH AND SERVICE
EDUCATION AND HUMAN RESOURCES	47.076		FOUNDATION KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
EDUCATION AND HUMAN RESOURCES	47.076		FOUNDATION
EDUCATION AND HOMAN RESOURCES	47.070		KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
EDUCATION AND HUMAN RESOURCES	47.076		FOUNDATION
OVID - 19 - EDUCATION AND HUMAN RESOURCES	47.076	COVID - 19	roombrillen
DUCATION AND HUMAN RESOURCES	47.076	COVID 13	
BOCKHON AND HOWART RESOURCES	47.070		GEORGIA SOUTHERN UNIVERSITY
			RESEARCH AND SERVICE
EDUCATION AND HUMAN RESOURCES	47.076		FOUNDATION, INC.
DUCATION AND HUMAN RESOURCES	47.076		, constitution, inci
POLAR PROGRAMS	47.078		
OFFICE OF INTERNATIONAL SCIENCE AND ENGINEERING	47.079		
OFFICE OF INTERNATIONAL SCIENCE AND ENGINEERING	47.079		CRDF GLOBAL
			GEORGIA SOUTHERN UNIVERSITY
			RESEARCH AND SERVICE
OFFICE OF INTERNATIONAL SCIENCE AND ENGINEERING	47.079		FOUNDATION, INC.
INTEGRATIVE ACTIVITIES	47.083		OREGON STATE UNIVERSITY
INTEGRATIVE ACTIVITIES	47.083		EDUWORKS CORPORATION
COVID - 19 - INTEGRATIVE ACTIVITIES	47.083	COVID - 19	EDUWORKS CORPORATION
COVID - 19 - INTEGRATIVE ACTIVITIES	47.083	COVID - 19	EDUWORKS CORPORATION
INTEGRATIVE ACTIVITIES	47.083		NORTHWESTERN UNIVERSITY
INTEGRATIVE ACTIVITIES	47.083		EDUWORKS CORPORATION
INTEGRATIVE ACTIVITIES	47.083		ARIZONA STATE UNIVERSITY
INTEGRATIVE ACTIVITIES	47.083		VANDERBILT UNIVERSITY
INTEGRATIVE ACTIVITIES	47.083		EDUWORKS CORPORATION
INTEGRATIVE ACTIVITIES			
NTEGRATIVE ACTIVITIES	47.083		
	47.083 47.RD	1903965	

Identifying Number Assigned By Funder	Total Amount		Federal		
Pass-Through	Provided to	Federal	Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
"1556410"		\$33,295	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"180114"		<i>\$35,37</i> 5	\$21,355,404	N/A	\$
				·	·
"2031490"		\$37,690	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,97
RSP-2018-033-215051-008"		\$38,098	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"RC103095UG"		\$38,330	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"12141"		\$39,758	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"DUE-1356615"		\$47,331	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"AGMT DTD 5/28/19"		\$57,069	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,97
SP0049508-PROJ0013883"		\$58,029	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"DUE 1240010"		¢GE OEO	¢24 255 404	N/A	ė
"DUE-1340019" "CON009029"		\$65,950 \$70,120	\$21,355,404 \$21,355,404	N/A RESEARCH AND DEVELOPMENT	\$ \$1,233,831,97
"10051874UG"		\$87,722	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		70.7.22	<i>+==,000,101</i>		+ -//
"109196415"		\$90,255	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"DUE-1340020"		\$91,703	\$21,355,404	N/A	Ç
"1619689"		\$92,091	\$21,355,404	N/A	\$
//200250//		4400 707	404.055.404		44 000 004 0
"2002350"		\$100,737	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"DUE-1930427"		\$113,330	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"DUE-1259954"		\$172,756	\$21,355,404	N/A	\$
		\$195,557	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$552,326	\$21,355,404	N/A	Ş
"63828383-24"	\$3,937	\$599,367	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$641,715	\$18,435,369	\$21,355,404	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$52,488	\$52,488	RESEARCH AND DEVELOPMENT	\$1,233,831,9
	\$4,176	\$10,626	\$57,813	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"OISE20667060"		\$14,999	\$57,813	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"63828383-29"		\$32,188	\$57,813	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"S2232A-C"		\$4,677	\$2,398,552	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"GRANT 1193_54"		\$6,863	\$2,398,552	N/A	\$
"98373"		\$14,415	\$2,398,552	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"UGA6120"		\$14,897	\$2,398,552	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON013572"		\$28,670	\$2,398,552	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"98375"		\$53,883	\$2,398,552	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON012160" "UNIV61733"		\$154,434 \$101 222	\$2,398,552	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$191,232 \$194,205	\$2,398,552 \$2,398,552	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,97 \$1,233,831,97
"GATQ120"		3134.203	22,070,332	MESEANCH AND DEVELOPIVIENT	71,233,031,97
"GAT9120"	\$48 500		\$2 308 552	RESEARCH AND DEVELOPMENT	\$1 222 821 07
"GAT9120"	\$48,500	\$1,735,276 \$86,389	\$2,398,552 \$86,389	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,97 \$1,233,831,97

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
TOTAL NATIONAL SCIENCE FOUNDATION			
SMALL BUSINESS ADMINISTRATION			
			GEORGIA SOUTHERN UNIVERSITY
			RESEARCH AND SERVICE
SMALL BUSINESS DEVELOPMENT CENTERS	59.037		FOUNDATION, INC.
COVID - 19 - SMALL BUSINESS DEVELOPMENT CENTERS	59.037	COVID - 19	
SMALL BUSINESS DEVELOPMENT CENTERS	59.037		
VETERANS OUTREACH PROGRAM	59.044		
STATE TRADE EXPANSION TOTAL SMALL BUSINESS ADMINISTRATION	59.061		
DEPARTMENT OF VETERANS AFFAIRS			
VETERANS STATE NURSING HOME CARE	64.015		
POST-9/11 VETERANS EDUCATIONAL ASSISTANCE	64.028		
RESEARCH AND DEVELOPMENT	64.054		
RESEARCH AND DEVELOPMENT	64.054		
BURIAL EXPENSES ALLOWANCE FOR VETERANS	64.101		
POST-VIETNAM ERA VETERANS' EDUCATIONAL ASSISTANCE	64.120		
VETERANS CEMETERY GRANTS PROGRAM	64.203		
PA AGREEMENT - ATLANTA VA	64.RD	SUSDV0001102501	
/A IPA - WANG, AI	64.RD	SP00014815	
CONTRACTED RESEARCH SERVICES WITH AUGUSTA UNIVERSI	64.U26	36C24E20N0112	
		CONTRACT	
CONTRACTED RESEARCH SERVICES WITH AUGUSTA UNIVERSI	64.U27	36C24E18D0047	
		CONTRACT VA247-17-C-	
EMERGENCY DEPARTMENT PHYSICIAN SERVICES	64.U28	0132	
		TASK ORDER	
CONTRACTED RESEARCH SERVICES WITH AUGUSTA UNIVERSI	64.U29	36C24E18N0028	
		TASK ORDER	
CONTRACTED RESEARCH SERVICES WITH AUGUSTA UNIVERSI	64.U30	36C24E19N0119	
		TASK ORDER	
CONTRACTED RESEARCH SERVICES WITH AUGUSTA UNIVERSI	64.U31	36C24E20N0112	
		A RANDOMIZED, MULTI-	
		SITE, PARALLEL-GROUP,	
PROTOCOL COL.AOM.2013.004	64.U32	RATER-BL	
TOTAL DEPARTMENT OF VETERANS AFFAIRS			
ENVIRONMENTAL PROTECTION AGENCY			
CTATE INDOOR BADON CRANTS	66.000		
STATE INDOOR RADON GRANTS	66.032		
SURVEYS, STUDIES, RESEARCH, INVESTIGATIONS, DEMONSTRATIONS, AND SPECIAL	66.024		
PURPOSE ACTIVITIES RELATING TO THE CLEAN AIR ACT	66.034 66.039		
DIESEL EMISSION REDUCTION ACT (DERA) NATIONAL GRANTS			
DIESEL EMISSIONS REDUCTION ACT (DERA) STATE GRANTS MULTIPURPOSE GRANTS TO STATES AND TRIBES	66.040 66.204		
WIGHT ONFOSE GRAINTS TO STATES AND TRIDES	00.204		
WATER POLLUTION CONTROL STATE, INTERSTATE, AND TRIBAL PROGRAM SUPPORT	66.419		
STATE UNDERGROUND WATER SOURCE PROTECTION	66.433		
WATER QUALITY MANAGEMENT PLANNING	66.454		
	201.04		
CAPITALIZATION GRANTS FOR CLEAN WATER STATE REVOLVING FUNDS	66.458		
NONPOINT SOURCE IMPLEMENTATION GRANTS	66.460		
REGIONAL WETLAND PROGRAM DEVELOPMENT GRANTS	66.461		
CAPITALIZATION GRANTS FOR DRINKING WATER STATE REVOLVING FUNDS	66.468		
GREAT LAKES PROGRAM	66.469		THE MORTON ARBORETUM

Identifying Number Assigned By Funder Pass-Through Entity	Total Amount Provided to Sub-Recipients	Federal Expenditures	Federal Program Total	Cluster Name	Cluster Total
	\$9,109,466	\$118,640,157			
"63828383-25"		\$126,222	\$6,896,948	N/A	\$
		\$3,225,253	\$6,896,948	N/A	Ç
	\$178,470	\$3,545,473	\$6,896,948	N/A	\$
		\$378,674	\$378,674	N/A	Ç
		\$30,778	\$30,778	N/A	Ş
	\$178,470	\$7,306,400			
	4				
	\$14,607,324	\$23,280,317	\$23,280,317	N/A N/A	3
		\$1,830,889	\$1,830,889		\$ \$
		\$8,197 \$192,360	\$200,557 \$200,557	N/A RESEARCH AND DEVELOPMENT	\$ \$1,233,831,97
		\$200,650	\$200,650	N/A	\$1,233,831,97
		\$790,162	\$790,162	N/A	\$
		\$2,015,848	\$2,015,848	N/A	\$
		\$5,741	\$19,916	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$14,175	\$19,916	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$21,276	\$21,276	N/A	\$
		\$16,274	\$16,274	N/A	\$
		\$60,756	\$60,756	N/A	\$
		\$63,346	\$63,346	N/A	\$
		\$874,496	\$874,496	N/A	\$
		\$27,887	\$27,887	N/A	\$
		A	4.54		
		\$451	\$451	N/A	Ç
	\$14,607,324	\$29,402,825			
		\$136,747	\$136,747	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$1,269,298	\$1,269,298	N/A	Ş
		\$1,343,118	\$1,343,118	N/A	Ç
		\$489,622 \$17,058	\$489,622 \$17,058	N/A RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$419,247	\$419,247	N/A	
		\$85,861	\$85,861	N/A	Ş
		\$394,525	\$394,525	N/A	Ş
	\$27,565,272	¢27 565 272	¢27 F6F 272	CLEAN WATER STATE REVOLVING	\$27,565,27
	\$27,565,272	\$27,565,272 \$2,516,902	\$27,565,272 \$2,516,902	FUND CLUSTER N/A	\$27,565,27 \$
	34 ,300	\$2,516,902	\$2,516,902	N/A	Ş
		Ψ201, 1 07	\$201, 1 07	DRINKING WATER STATE REVOLVING	¥
	\$23,710,194	\$24,748,074	\$24,748,074	FUND CLUSTER	\$24,748,07

Federal Awarding Agency/Program Title	Federal CFDA Number	Additional Award Identification (Optional)	Name of Funder Pass-Through Entity
		, , , , , , , , , , , , , , , , , , ,	
BEACH MONITORING AND NOTIFICATION PROGRAM IMPLEMENTATION GRANTS	66.472		
SCIENCE TO ACHIEVE RESULTS (STAR) RESEARCH PROGRAM	66.509		NORTHEASTERN UNIVERSITY
SCIENCE TO ACHIEVE RESULTS (STAR) RESEARCH PROGRAM	66.509		
OFFICE OF RESEARCH AND DEVELOPMENT CONSOLIDATED			
RESEARCH/TRAINING/FELLOWSHIPS	66.511		
SCIENCE TO ACHIEVE RESULTS (STAR) FELLOWSHIP PROGRAM	66.514		
SCIENCE TO ACHIEVE RESULTS (STAR) FELLOWSHIP PROGRAM	66.514		LAKE MICHIGAN AIR DIRECTORS CONSORTIUM
SCIENCE TO ACHIEVE RESULTS (STAR) FELLOWSHIP PROGRAM	66.514		LAKE MICHIGAN AIR DIRECTORS CONSORTIUM
			GENERAL DYNAMICS MISSION
SCIENCE TO ACHIEVE RESULTS (STAR) FELLOWSHIP PROGRAM	66.514		SYSTEMS, INC.
PERFORMANCE PARTNERSHIP GRANTS	66.605		
ENVIRONMENTAL INFORMATION EXCHANGE NETWORK GRANT PROGRAM AND			
RELATED ASSISTANCE	66.608		
TOXIC SUBSTANCES COMPLIANCE MONITORING COOPERATIVE AGREEMENTS	66.701		
TSCA TITLE IV STATE LEAD GRANTS CERTIFICATION OF LEAD-BASED PAINT			
PROFESSIONALS	66.707		
POLLUTION PREVENTION GRANTS PROGRAM	66.708		GE GLOBAL RESEARCH
POLLUTION PREVENTION GRANTS PROGRAM	66.708		
RESEARCH, DEVELOPMENT, MONITORING, PUBLIC EDUCATION,			
OUTREACH, TRAINING, DEMONSTRATIONS, AND STUDIES	66.716		EXTENSION
RESEARCH, DEVELOPMENT, MONITORING, PUBLIC EDUCATION,			
OUTREACH, TRAINING, DEMONSTRATIONS, AND STUDIES	66.716		EXTENSION
SUPERFUND STATE, POLITICAL SUBDIVISION, AND INDIAN TRIBE SITE-SPECIFIC			
COOPERATIVE AGREEMENTS	66.802		
UNDERGROUND STORAGE TANK (UST) PREVENTION, DETECTION, AND COMPLIANCE PROGRAM	66.804		
LEAKING UNDERGROUND STORAGE TANK TRUST FUND CORRECTIVE ACTION PROGRAM	66.805		
SUPERFUND STATE AND INDIAN TRIBE CORE PROGRAM COOPERATIVE AGREEMENTS	66.809		
STATE AND TRIBAL RESPONSE PROGRAM GRANTS	66.817		
ENVIRONMENTAL EDUCATION GRANTS	66.951		
		SECTION 319(H) FEDERAL WATER POLLUTION CONTROL	
BIOTA IMPROVEMENT IN AN URBAN STREAM THROUGH AQUA	66.RD	ACT	CITY OF AUGUSTA
TOTAL ENVIRONMENTAL PROTECTION AGENCY			
NUCLEAR REGULATORY COMMISSION			
U.S. NUCLEAR REGULATORY COMMISSION SCHOLARSHIP AND FELLOWSHIP			
PROGRAM	77.008		
U.S. NUCLEAR REGULATORY COMMISSION SCHOLARSHIP AND FELLOWSHIP			
PROGRAM	77.008		
TOTAL NUCLEAR REGULATORY COMMISSION			
DEPARTMENT OF ENERGY			
ENVIRONMENTAL MONITORING, INDEPENDENT RESEARCH, TECHNICAL			LAWRENCE LIVERMORE NATIONAL
ANALYSIS	81.005		LABORATORY
CYBERSECURITY, ENERGY SECURITY & EMERGENCY RESPONSE (CESER)	81.008		
			SAVANNAH RIVER NUCLEAR
STATE ENERGY PROGRAM	81.041		SOLUTIONS, LLC
STATE ENERGY PROGRAM	81.041		
WEATHERIZATION ASSISTANCE FOR LOW-INCOME PERSONS	81.042		
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		HONEYWELL INTERNATIONAL, INC.

Identifying Number Assigned By Funder Pass-Through Entity	Total Amount Provided to Sub-Recipients	Federal Expenditures	Federal Program Total	Cluster Name	Cluster Total
		\$205,772	\$205,772	N/A	\$0
"50510978050"		\$49,980	\$160,125	RESEARCH AND DEVELOPMENT	\$1,233,831,971
30310378030	\$108,477	\$110,145	\$160,125	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	, ,	, ,			, , , ,
		\$8,302	\$8,302	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$487	\$82,064	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"AGMT DTD 3/8/2021"		\$12,386	\$82,064	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"AGMT DTD 7/15/2020"		\$25,063	\$82,064	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"7SK00041MD"		\$44,128	\$82,064	RESEARCH AND DEVELOPMENT	\$1,233,831,971
731000411110		\$14,859,706	\$14,859,706	N/A	\$0
		, ,,	, ,,	,	, .
		\$67,000	\$67,000	N/A	\$0
		\$67,738	\$67,738	N/A	\$0
		\$303,140	\$303,140	N/A	\$0
"01D15820"		\$8,021	\$139,333	N/A	\$0
	\$2,275	\$131,312	\$139,333	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SEXTF0001134401"		-\$123	\$12,977	RESEARCH AND DEVELOPMENT	\$1,233,831,971
C4202444		612.100	642.077	DECEMBELL AND DELVELOPMENT	64 222 024 074
"SA202141"		\$13,100	\$12,977	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$219,748	\$219,748	N/A	\$0
		Ψ223), io	ψ 223), 10	.,,,,	ΨΨ
		\$662,374	\$662,374	N/A	\$0
		\$1,658,494	\$1,658,494	N/A	\$0
		\$97,668	\$97,668	N/A	\$0
		\$661,177	\$661,177	N/A	\$0 \$0
	\$10,582	\$22,092	\$22,092	N/A	\$0
		4	4		4
"SECTION 319(H) WATER"		\$454	\$454	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$51,401,300	\$78,425,319			
	431,461,366	¥10,423,313			
		\$19,260	\$57,013	N/A	\$0
		\$37,753	\$57,013	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	<u>_</u>	\$57,013			
"7581171"		\$49,999	\$49,999	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$305,552	\$305,552	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"0000456328"		\$75,077	\$984,484	N/A	\$0
	\$476,092	\$909,407	\$984,484	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$3,972,934	\$4,428,624	\$4,428,624	N/A	\$0
"N000250980"		-\$50,926	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		7/3	, ,,0		, ,,,-,-

Federal Awarding Agency/Program Title	Federal CFDA Number	Additional Award Identification (Optional)	Name of Funder Pass-Through Entity
rederal Awarding Agency/Frogram True	Number	(Ориони)	PACIFIC NORTHWEST NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		UT-BATTELLE, LLC
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROCESAM	91.040		PACIFIC NORTHWEST NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY UNIVERSITY OF WISCONSIN -
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		MADISON
OFFICE OF CCIENCE FINANCIAL ACCICTANCE PROCRAM	04.040		CANDIA NATIONAL LABORATORIE
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES PACIFIC NORTHWEST NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		HONEYWELL INTERNATIONAL, INC.
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
			SAVANNAH RIVER NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY LAWRENCE LIVERMORE NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		HONEYWELL INTERNATIONAL, INC.
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		AMTECH SYSTEMS, INC.
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES SLAC NATIONAL ACCELERATOR
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		HONEYWELL INTERNATIONAL, INC.
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		CONSOLIDATED NUCLEAR SECURITY, LLC
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		HONEYWELL INTERNATIONAL, INC.
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		HONEYWELL INTERNATIONAL, INC.
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		IDAHO NATIONAL LABORATORY
			CALIFORNIA INSTITUTE OF
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		TECHNOLOGY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		MILLENNITEK, LLC
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE THYANCIAL ASSISTANCE PROGRAM	31.045		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROCESAN	21.040		CANDIA NATIONAL LABORATORIS
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES

Entity Sub-Recipients "322234"	- ".	Program	Cluster	Cluster
"22224"	Expenditures	Total	Name	Total
322234	-\$45,707	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1997022"	-\$23,335	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2041627"	-\$10,444	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1920585"	-\$8,449	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"4000115351"	-\$3,542	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"DE-AC05-76RL01830"	-\$3,179	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"562K284"	-\$1,666	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1744348"	-\$1,513	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"449705"	-\$971	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2032371"	-\$880	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"N000300107"	-\$854	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1954355"	-\$760	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2013350"	-\$494	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2018-000030"	-\$413	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"B617458"	-\$307	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"N000293974"	-\$249	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"AGREEMENT DATED MARCH 1, 2019"	-\$181	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1767660"	-\$58	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"176551"	-\$26	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"136772"	-\$8	\$27,049,430	N/A	\$0
"AGMT DTD 4/5/17"	\$2	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"N000297946"	\$39	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"4300158496"	\$44	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"N000317552"	\$313	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"N000346564"	\$570	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"179569"	\$1,070	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"S390607"	\$1,502	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
"2110038" "146470"	\$1,997 \$2,636	\$27,049,430 \$27,049,430	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,971 \$1,233,831,971
"2224297"	\$3,564	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2075873"	\$3,748	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2157495"	\$4,756	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$6,477	, 11,213,100		, ,,

Fodovel Augustine Acono (Ovocume Title	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES PACIFIC NORTHWEST NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		FLORIDA STATE UNIVERSITY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROCRAM	91 040		CANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049 81.049		SANDIA NATIONAL LABORATORIES IDAHO NATIONAL LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SOUTHERN COMPANY
077162 67 56321762 7777 1776 17717 1776 1777 1777	02.073		33377121111 331111 71111
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		IDAHO NATIONAL LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		TUFTS UNIVERSITY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SAIC, INC. PACIFIC NORTHWEST NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		UT-BATTELLE, LLC
			, .
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
			LOS ALAMOS NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
			PACIFIC NORTHWEST NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		UNIVERSITY OF WASHINGTON
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		UT-BATTELLE, LLC
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		HONEYWELL INTERNATIONAL, INC.
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		HONEYWELL INTERNATIONAL, INC.
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SAIC, INC.

Identifying Number Assigned By Funder	Total Amount		Federal		
Pass-Through Entity	Provided to Sub-Recipients	Federal Expenditures	Program Total	Cluster Name	Cluster Total
"2256491"	·	\$7,140	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"556927"		<i>\$7,656</i>	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CHECK NO. 394304"		\$7,934	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"R01436"		\$8,659	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2085954"		\$10,721	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1443860"		\$11,112	\$27,049,430	N/A	\$0
"190986"		\$11,497	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"62668"		\$12,573	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2249126"		\$13,120	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"245139"		\$13,291	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
243133		Ş13,231	<i>\$27,043,430</i>	RESEARCH TO THE DEVELOT WERE	<i>ϕ1,233,031,371</i>
"1980535"		\$13,306	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"DOE423_WHEELER"		\$13,429	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2118474"		\$14,256	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2170449"		\$14,501	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"533718"		\$14,636	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2205639"		\$15,203	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2132596"		\$15,972	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1984599"		\$16,825	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"4000177997"		\$16,825	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2234323"		\$16,929	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CHECK NO. 1452393"		\$17,081	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2001728"		\$17,408	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"633534"		\$18,139	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2115504"		\$18,484	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"439121"		\$19,027	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"UWSC12420/BPO57272"		\$19,089	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2248233"		\$19,285	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1971768"		\$19,703	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"*****		40	407.04	0505406116440	64 000 55
"1991855"		\$22,568	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"4000161873"		\$22,986	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1952411"		\$23,345	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1862981"		\$24,645	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"N000384869"		\$24,657	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"N000386587"		\$25,098	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2216268"		\$25,110	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2210321"		\$25,231	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049 81.049		SANDIA NATIONAL LABORATORIES UT-BATTELLE, LLC
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROCESSA	04.040		MACHINICTON CTATE UNIVERSITY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049 81.049		WASHINGTON STATE UNIVERSITY IDAHO NATIONAL LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES PACIFIC NORTHWEST NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		UT-BATTELLE, LLC
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SAIC, INC.
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LAWRENCE LIVERMORE NATIONAL LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		IOWA STATE UNIVERSITY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		CONTINUUM DYNAMICS, INC.
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		CALABAZAS CREEK RESEARCH, INC.
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		UT-BATTELLE, LLC
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		MASSACHUSETTS INSTITUTE OF TECHNOLOGY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES SAVANNAH RIVER NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		DARTMOUTH COLLEGE
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LAWRENCE LIVERMORE NATIONAL LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES FERMI RESEARCH ALLIANCE, LLC
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		(FERMILAB)
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES LOS ALAMOS NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES LAWRENCE LIVERMORE NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY

Identifying Number Assigned By Funder	Total Amount	Full 1	Federal	Charter	
Pass-Through Entity	Provided to Sub-Recipients	Federal Expenditures	Program Total	Cluster Name	Cluster Total
		,		· · · · · · · · · · · · · · · · · · ·	
"2210029"		\$25,910	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"4000185049"		\$25,940	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2166320"		\$26,322	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"124124 C0020C0"		¢26.506	¢27.040.420	DESCRIPCIO AND DEVELOPMENT	ć4 222 024 0 7 4
"134124-G003969" "226040"		\$26,596 \$28,738	\$27,049,430 \$27,049,430	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,971 \$1,233,831,971
220040		720,730	<i>\$27,043,430</i>	NESE/MENTING DEVELOTIMENT	<i>ϕ1,233,031,371</i>
"2182814"		\$28,802	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"521481"		\$29,322	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
321401		<i>423,322</i>	<i>\$27,043,430</i>	NESE/MENTING DEVELOTIMENT	<i>ϕ1,233,031,371</i>
"CHECK NO. 1453721"		\$30,463	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"4000125663"		\$30,607	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2243697"		\$30,714	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"B644400"		\$32,355	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SC-19-495"		\$32,524	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2211212"		\$33,009	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"PO 20-065"		\$33,106	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"GTRC AMT 144752 DTD012-					
2-2020"		\$33,793	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2176379"		\$35,000	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		7-0,000	7=1,0 10,100		<i>+</i> =,===,===
"2167820"		\$35,076	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1902837"		\$35,542	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"4000185153"		\$36,059	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
CE2COROF02020		¢26.552	¢27.040.420	DECEARCH AND DEVELOPMENT	ć4 222 024 0 7 4
"S5360PO592820"		\$36,552	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2173263"		\$36,555	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
2405775		ćac 702	627.040.420	DESCRIPCIO AND DELICIONATALE	64 222 024 074
"2105775"		\$36,703	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2236434"		\$37,702	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
""		4	4		4
"GT00005" "R1310"		\$37,902 \$38,223	\$27,049,430 \$27,049,430	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,971 \$1,233,831,971
11220		<i>\$30,223</i>	<i>\$27,043,430</i>	NESE/MENTING BEVEEST WENT	<i>ϕ1,233,031,371</i>
"B640461"		\$38,837	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2156722"		\$39,064	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
2130722		<i>339,004</i>	327,043,430	RESEARCH AND DEVELOPMENT	\$1,233,631,371
"2197001"		\$39,224	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"655410"		\$39,393	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
033410		<i>337,33</i> 3	327,043,430	RESEARCH AND DEVELOPMENT	\$1,233,631,371
"2156264"		\$39,487	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1907564"		¢20.504	¢27.040.420	DECEADOU AND DEVELOPMENT	¢1 222 021 071
"1897564"		\$39,584	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1974284"		\$39,698	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"389971"		Ć20.7E0	¢27.040.420	DECEADOU AND DEVELOPMENT	¢1 222 021 071
3039/1		\$39,758	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2152698"		\$40,000	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"PC4220C"		440.000	627.042.425	DECEARCH AND DEVELOPMENT	¢4 222 C21 27
"B642896"		\$40,923	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971

Federal Awarding Agency/Program Title	Federal CFDA Number	Additional Award Identification (Optional)	Name of Funder Pass-Through Entity
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049 81.049		SANDIA NATIONAL LABORATORIES UT-BATTELLE, LLC
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES UNIVERSITY OF WISCONSIN -
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		MADISON
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		ARGONNE NATIONAL LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		UT-BATTELLE, LLC
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE FOUNDATION PACIFIC NORTHWEST NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY AMERICAN INSTITUTE OF
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049 81.049		CHEMICAL ENGINEERS (AICHE) SAIC, INC.
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SUSTAINABLE MANUFACTURING INNOVATION ALLIANCE CORPORATION
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049 81.049		SANDIA NATIONAL LABORATORIES UT-BATTELLE, LLC
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049 81.049		SANDIA NATIONAL LABORATORIES SAIC, INC.
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES PACIFIC NORTHWEST NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		UT-BATTELLE, LLC
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		UNIVERSITY OF ARIZONA

\$41,175		Name	Total
	¢27.040.420	RESEARCH AND DEVELOPMENT	¢1 222 021 03
\$41,173 \$41,364	\$27,049,430 \$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,97 \$1,233,831,97
\$41,397	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,97
\$41,814	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,97
, ,			
			\$1,233,831,97
\$44,983	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,97
\$45,079	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,9
\$45,807	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,9
\$46.973	\$27.049.430	RESEARCH AND DEVELOPMENT	\$1,233,831,9
\$46,982	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,9
\$46,985	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,9
\$47,224	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,9
	\$27,040,420	PESEARCH AND DEVELORMENT	\$1,233,831,9
\$48,127	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,9
\$48 978	\$27.049.430	RESEARCH AND DEVELOPMENT	\$1,233,831,9
\$49,948	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,9
\$50,209	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,9 \$1,233,831,9
\$51,270	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,9
\$51,531	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,9
\$51.604	\$27.049.430	RESEARCH AND DEVELOPMENT	\$1,233,831,9
7,	7=1,012,120		+ =,===,===,=
\$52,634 \$52,632	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,9 \$1,233,831,9
\$52,752	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,9
\$53,032	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,9
\$53,232	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,9
\$53,895	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,9
\$54,649	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,9
\$55,659	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,9
\$55,977	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,9
\$56,283	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,9
\$56,579	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,9
	\$45,807 \$46,973 \$46,982 \$46,985 \$47,224 \$47,452 \$48,127 \$48,978 \$49,948 \$50,209 \$50,302 \$51,531 \$51,604 \$52,634 \$52,673 \$52,673 \$52,752 \$53,032 \$53,232 \$53,895 \$54,649 \$55,659 \$55,977	\$44,983 \$27,049,430 \$45,079 \$27,049,430 \$45,807 \$27,049,430 \$46,982 \$27,049,430 \$46,985 \$27,049,430 \$47,224 \$27,049,430 \$47,452 \$27,049,430 \$48,127 \$27,049,430 \$48,978 \$27,049,430 \$49,948 \$27,049,430 \$50,209 \$27,049,430 \$50,302 \$27,049,430 \$51,270 \$27,049,430 \$51,531 \$27,049,430 \$51,604 \$27,049,430 \$51,604 \$27,049,430 \$52,673 \$27,049,430 \$52,673 \$27,049,430 \$52,673 \$27,049,430 \$53,032 \$27,049,430 \$55,659 \$27,049,430 \$55,679 \$27,049,430	\$44,983 \$27,049,430 RESEARCH AND DEVELOPMENT \$45,079 \$27,049,430 RESEARCH AND DEVELOPMENT \$45,807 \$27,049,430 RESEARCH AND DEVELOPMENT \$46,973 \$27,049,430 RESEARCH AND DEVELOPMENT \$46,982 \$27,049,430 RESEARCH AND DEVELOPMENT \$46,985 \$27,049,430 RESEARCH AND DEVELOPMENT \$47,224 \$27,049,430 RESEARCH AND DEVELOPMENT \$47,224 \$27,049,430 RESEARCH AND DEVELOPMENT \$48,127 \$27,049,430 RESEARCH AND DEVELOPMENT \$48,978 \$27,049,430 RESEARCH AND DEVELOPMENT \$49,948 \$27,049,430 RESEARCH AND DEVELOPMENT \$50,209 \$27,049,430 RESEARCH AND DEVELOPMENT \$50,302 \$27,049,430 RESEARCH AND DEVELOPMENT \$51,531 \$27,049,430 RESEARCH AND DEVELOPMENT \$51,531 \$27,049,430 RESEARCH AND DEVELOPMENT \$51,604 \$27,049,430 RESEARCH AND DEVELOPMENT \$52,634 \$27,049,430 RESEARCH AND DEVELOPMENT \$53,032 \$27,049,430 RESEARCH AND DEVELOPMENT \$53,033 \$27,049,430 RESEARCH AND DEVELOPMENT \$53,034 \$27,049,430 RESEARCH AND DEVELOPMENT \$55,659 \$27,049,430 RESEARCH AND DEVELOPMENT

Federal Awarding Agency/Program Title	Federal CFDA Number	Additional Award Identification (Optional)	Name of Funder Pass-Through Entity
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049 81.049		SANDIA NATIONAL LABORATORIES VURONYX TECHNOLOGIES, LLC
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		UNIVERSITY OF CALIFORNIA, SAN DIEGO
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049 81.049		SANDIA NATIONAL LABORATORIES UT-BATTELLE, LLC
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049 81.049		SANDIA NATIONAL LABORATORIES UT-BATTELLE, LLC
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		UNIVERSITY OF PITTSBURGH
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES LAWRENCE LIVERMORE NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049 81.049		SANDIA NATIONAL LABORATORIES GEORGIA SOUTHERN UNIVERSITY RESEARCH AND SERVICE FOUNDATION, INC.
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		CALIFORNIA INSTITUTE OF TECHNOLOGY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES LAWRENCE LIVERMORE NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY LOS ALAMOS NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SUSTEON, INC.
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		HONEYWELL INTERNATIONAL, INC. BROOKHAVEN NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049 81.049		LABORATORY SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049 81.049 81.049		SANDIA NATIONAL LABORATORIES LAWRENCE LIVERMORE NATIONAL LABORATORY BROWN UNIVERSITY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		PHILLIPS 66 COMPANY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES

Identifying Number Assigned By Funder	Total Amount		Federal		
Pass-Through Entity	Provided to Sub-Recipients	Federal Expenditures	Program Total	Cluster Name	Cluster Total
"2044983"		\$57,683	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"AGR DTD 16-JUN-2020"		\$60,000	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1916-1689"		\$60,999	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1995330"		\$61,034	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2086636"		\$61,437	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"4000181240"		\$61,458	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2196829"		\$62,256	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2051479"		\$63,145	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2015247"		\$63,554	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"4000175377"		\$64,311	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"AWD00001252 (415707-1)"		\$65,003	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2128259"		\$65,641	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2137351"		\$65,979	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2094078"		\$65,986	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"B639903"		\$67,244	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2085524"		\$67,625	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"63828383-26"		\$68,066	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2205488"		\$68,984	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"\$451338"		\$70,307	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2079964"		\$71,009	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"DE-AC04-94AL-85000"		\$71,011	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"B640369"		\$71,410	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"528054"		\$71,700	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2218472"		\$73,225	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"AGREEMENT DTD 03/04/2020"		\$73,759	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2204587"		\$74,244	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"N000338179"		\$75,152	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"343172"		\$75,337	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2217491"		\$75,417	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"B644118"		\$76,240	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1289"		\$76,556	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"GTRC AGMT DTD. 12/08/2020"		\$80,384	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2200795"		\$80,398	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971

Federal Awarding Agency/Program Title	Federal CFDA Number	Additional Award Identification (Optional)	Name of Funder Pass-Through Entity
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049	, - , - , - , - , - , - , - , - , - , -	ARGONNE NATIONAL LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
			STONY BROOK UNIVERSITY, STATE
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		UNIVERSITY OF NEW YORK CONSOLIDATED NUCLEAR
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SECURITY, LLC
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		CISCO SYSTEMS, INC.
077762 67 56/2/162 7 W 1176/1/2/1/162 7 TH 66/1/ 1177	52.0.13		LOS ALAMOS NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		UT-BATTELLE, LLC
			CONSOLIDATED NUCLEAR
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SECURITY, LLC
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		HONEYWELL INTERNATIONAL, INC.
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LOS ALAMOS NATIONAL LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		ARGONNE NATIONAL LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		UT-BATTELLE, LLC
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES LAWRENCE LIVERMORE NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		OSAZDA ENERGY, LLC
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
			UNIVERSITY OF WISCONSIN -
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		MADISON
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
			LAWRENCE LIVERMORE NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		UT-BATTELLE, LLC
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		UNIVERSITY OF MINNESOTA
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OTTICE OF SCIENCE FINANCIAE ASSISTANCE FINOUNAM	01.043		LOS ALAMOS NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		VANDERBILT UNIVERSITY
			LOS ALAMOS NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY
0.55105 0.5 0.0151105 51111115			PACIFIC NORTHWEST NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		HONEYWELL INTERNATIONAL, INC.
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		IDAHO NATIONAL LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		JOHNS HOPKINS UNIVERSITY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		UT-BATTELLE, LLC
			,

Identifying Number Assigned By Funder Pass-Through Entity	Total Amount Provided to Sub-Recipients	Federal Expenditures	Federal Program Total	Cluster Name	Cluster Total
"AVTC12"		\$80,620	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2200840"		\$80,961	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"68856-TASK 3, PROJ.					
1119493"		\$85,674	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"4300166311"		\$86,028	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2139970"		\$88,177	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2141852"		\$88,188	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"TASK ORDER #13"		\$88,607	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"609605"		\$89,016	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2120337"		\$90,699	627.040.420	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"4000180433"		\$91,334	\$27,049,430 \$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"4300161789"		\$91,406	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"N000339711"		\$91,528	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"524823"		\$92,255	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"9F-60044"		\$92,507	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2099968"		\$93,069	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"4000170418"		\$93,184	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2088470"		\$94,842	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"7547203"		\$99,644	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"AWARD_CONTRACT_LINE-3-					
16067"		\$100,353	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"PO 2112650"		\$100,961	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"775K563"		\$102,557	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2078144"		\$103,259	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"B636911"		\$104,434	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"4000167866"		\$105,487	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"A003127003"		\$106,068	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$109,320	\$27,049,430	N/A	\$0
"2088556"		\$114,972	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"545066"		\$117,124	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"#19067-S12"		\$117,613	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"613160"		\$130,054	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"535498"		\$130,852	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"N000384469"		\$131,891	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"207604"		\$131,891 \$133,877	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2119210"		\$144,165	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2004690045" "4000171856"		\$148,209 \$152,279	\$27,049,430	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,971 \$1,233,831,971
40001/1630		\$152,279	\$27,049,430	RESEARCH AIND DEVELOPIVIEIVI	\$1,233,631,9/1

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity SAVANNAH RIVER NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		NATIONAL RENEWABLE ENERGY LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	91.040		CANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049 81.049		SANDIA NATIONAL LABORATORIES IOWA STATE UNIVERSITY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		ARGONNE NATIONAL LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		PENNSYLVANIA STATE UNIVERSITY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		HONEYWELL INTERNATIONAL, INC.
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
			MASSACHUSETTS INSTITUTE OF
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		TECHNOLOGY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		INERT PLASMA CHARGING, LLC
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		UT-BATTELLE, LLC
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		UT-BATTELLE, LLC
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		FLUOR MARINE PROPULSION, LLC
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		UT-BATTELLE, LLC
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SANDIA NATIONAL LABORATORIES
			LAWRENCE BERKELEY NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		ARGONNE NATIONAL LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		SAIC, INC.
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		HALLIBURTON
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		HONEYWELL INTERNATIONAL, INC. LOS ALAMOS NATIONAL
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		LABORATORY
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049		EADONATONT
CONSERVATION RESEARCH AND DEVELOPMENT	81.086		SOUTHWEST RESEARCH INSTITUTE
CONSERVATION RESEARCH AND DEVELOPMENT	81.086		UNIVERSITY OF MICHIGAN
CONSERVATION RESEARCH AND DEVELOPMENT	81.086		UNIVERSITY OF TENNESSEE
			VIRGINIA POLYTECHNIC INSTITUTE
CONSERVATION RESEARCH AND DEVELOPMENT	81.086		AND STATE UNIVERSITY
CONSERVATION RESEARCH AND DEVELOPMENT	81.086		NIKOLA CORPORATION
CONSERVATION RESEARCH AND DEVELOPMENT	81.086		UNIVERSITY OF VIRGINIA
CONSERVATION RESEARCH AND DEVELOPMENT	81.086		
RENEWABLE ENERGY RESEARCH AND DEVELOPMENT	81.087		TEXAS A&M UNIVERSITY
			ELECTRIC POWER RESEARCH
RENEWABLE ENERGY RESEARCH AND DEVELOPMENT	81.087		INSTITUTE
RENEWABLE ENERGY RESEARCH AND DEVELOPMENT	81.087		NORTHWESTERN UNIVERSITY
RENEWABLE ENERGY RESEARCH AND DEVELOPMENT	81.087		UNIVERSITY OF ARKANSAS
RENEWABLE ENERGY RESEARCH AND DEVELOPMENT	81.087		UNIVERSITY OF DELAWARE
			AMERICAN INSTITUTE OF
RENEWABLE ENERGY RESEARCH AND DEVELOPMENT	81.087		CHEMICAL ENGINEERS (AICHE)
RENEWABLE ENERGY RESEARCH AND DEVELOPMENT	81.087		ARIZONA STATE UNIVERSITY

Identifying Number Assigned By Funder Pass-Through	Total Amount Provided to	Federal	Federal Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
"342690"		\$152,618	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"SUB-2021-10429"		\$161,692	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"2146288"		\$163,854	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,97
2404C22		¢4.55.450	627.040.420	DESCRIPCIO AND DELIGIODATENT	¢4 222 024 0 7
"2181623" "SC-18-463"		\$166,469 \$179,133	\$27,049,430 \$27,049,430	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,97 \$1,233,831,97
30-10-403		<i>\$173,</i> 133	327,043,430	RESEARCH AND DEVELOPMENT	71,233,631,37
"0F-60145"		\$180,062	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"S000014-EARPA"		\$180,791	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"N000388591"		\$189,740	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"2210236"		\$198,568	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"535932"		\$200,757	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"9/2/2020 ATP"		\$208,046	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"2104076"		\$211,958	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"4000174400"		\$213,801	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"4000161062"		\$232,996	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		, ,	, , , , , , , ,		, , , ,
"131210"		\$239,567	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"4000152786"		\$240,692	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"2103933"		\$253,776	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"2163299"		¢250.261	¢27.040.420	RESEARCH AND DEVELOPMENT	ć1 222 021 O
2103233		\$259,261	\$27,049,430	RESEARCH AIND DEVELOPINIEINT	\$1,233,831,97
"DE-AC02-05CH11231"		\$274,359	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"8F-30135"		\$310,361	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"2167910"		\$333,497	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"DE-FG02-01ER54656"		\$364,170	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"DE-NA0002839"		\$701,464	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"547813"	44.544.55	\$1,500,337	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$1,514,455	\$10,575,344	\$27,049,430	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"L99080MJM"		\$13,724	\$1,594,112	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"SUBK00011715"		\$23,912	\$1,594,112	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"A21-0468-S001"		\$49,196	\$1,594,112	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"#429399-19034"		\$58,337	\$1,594,112	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"GTRC 141800 DTD		,			. , , , ,
05/26/2021"		\$66,650	\$1,594,112	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"GQ10077"		\$118,071	\$1,594,112	RESEARCH AND DEVELOPMENT	\$1,233,831,9
	\$184,483	\$1,264,222	\$1,594,112	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"M1900414"		\$35,710	\$3,914,668	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"10012453"		\$37,312	\$3,914,668	RESEARCH AND DEVELOPMENT	\$1,233,831,97
SP0045962-PROJ0012882"		\$38,062	\$3,914,668	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"UA2020-190"		\$66,757	\$3,914,668	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"#53038"		\$68,354	\$3,914,668	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"DE-EE0007888-06-4B"		\$73,472	\$3,914,668	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"ASUB00000586"		\$100,576	\$3,914,668	RESEARCH AND DEVELOPMENT	\$1,233,831,97

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
, , , , , , , , , , , , , , , , , , ,		Tapara . ,	TEXAS TECH UNIVERSITY HEALTH
RENEWABLE ENERGY RESEARCH AND DEVELOPMENT	81.087		SCIENCES CENTER
			AMERICAN INSTITUTE OF
RENEWABLE ENERGY RESEARCH AND DEVELOPMENT	81.087		CHEMICAL ENGINEERS (AICHE)
DENEMADIE ENERGY DECEARCH AND DEVELORMENT	01 007		AMERICAN INSTITUTE OF
RENEWABLE ENERGY RESEARCH AND DEVELOPMENT RENEWABLE ENERGY RESEARCH AND DEVELOPMENT	81.087 81.087		CHEMICAL ENGINEERS (AICHE) UNIVERSITY OF WASHINGTON
RENEWADEL ENERGY RESEARCH AND DEVELOPMENT	81.087		AMERICAN INSTITUTE OF
RENEWABLE ENERGY RESEARCH AND DEVELOPMENT	81.087		CHEMICAL ENGINEERS (AICHE)
RENEWABLE ENERGY RESEARCH AND DEVELOPMENT	81.087		, ,
			CHILDREN'S HEALTHCARE OF
FOSSIL ENERGY RESEARCH AND DEVELOPMENT	81.089		ATLANTA, INC.
FOSSIL ENERGY RESEARCH AND DEVELOPMENT	81.089		SOUTHWEST RESEARCH INSTITUTE
FOSSIL ENERGY RESEARCH AND DEVELOPMENT	81.089		RTI INTERNATIONAL
FOSSIL ENERGY RESEARCH AND DEVELOPMENT	81.089		PAVEMENT ANALYTICS, LLC
1033/LEMENOT MESEANOTANO DEVELOT MENT	01.003		TANDENT AND LETTICS, LEC
FOSSIL ENERGY RESEARCH AND DEVELOPMENT	81.089		UNIVERSITY OF CENTRAL FLORIDA
FOSSIL ENERGY RESEARCH AND DEVELOPMENT	81.089		
ENVIRONMENTAL REMEDIATION AND WASTE PROCESSING AND			SRS COMMUNITY REUSE
DISPOSAL	81.104		ORGANIZATION
ENVIRONMENTAL REMEDIATION AND WASTE PROCESSING AND			SRS COMMUNITY REUSE
DISPOSAL	81.104		ORGANIZATION
ENVIRONMENTAL REMEDIATION AND WASTE PROCESSING AND			SRS COMMUNITY REUSE
DISPOSAL	81.104		ORGANIZATION
TRANSPORT OF TRANSURANIC WASTES TO THE WASTE ISOLATION PILOT			
PLANT: STATES AND TRIBAL CONCERNS, PROPOSED SOLUTIONS	81.106		SOUTHERN STATES ENERGY BOARD
STEWARDSHIP SCIENCE GRANT PROGRAM	81.112		300 THERIT STATES ENERGY BOXING
			NORTH CAROLINA STATE
DEFENSE NUCLEAR NONPROLIFERATION RESEARCH	81.113		UNIVERSITY
DEFENSE NUCLEAR NONPROLIFERATION RESEARCH	81.113		UNIVERSITY OF MICHIGAN
DEFENSE NUCLEAR NONPROLIFERATION RESEARCH	81.113		
ENERGY EFFICIENCY AND RENEWABLE ENERGY INFORMATION			
DISSEMINATION, OUTREACH, TRAINING AND TECHNICAL			
ANALYSIS/ASSISTANCE	81.117		CLEAN ENERGY STATES ALLIANCE
ENERGY EFFICIENCY AND RENEWABLE ENERGY INFORMATION DISSEMINATION,			
OUTREACH, TRAINING AND TECHNICAL ANALYSIS/ASSISTANCE	81.117		
NUCLEAR ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION	81.121		SYRACUSE UNIVERSITY
NUCLEAR ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION	81.121		UNIVERSITY OF NEBRASKA-LINCOLN
NUCLEAR ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION	81.121		SYRACUSE UNIVERSITY
NUCLEAR ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION	81.121		
NUCLEAR ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION	81.121		
ELECTRICITY RESEARCH, DEVELOPMENT AND ANALYSIS	81.122		
NATIONAL NUCLEAR SECURITY ADMINISTRATION (NNSA) MINORITY	04.422		UNIVERSITY OF MORTH TEVAS
SERVING INSTITUTIONS (MSI) PROGRAM	81.123		UNIVERSITY OF NORTH TEXAS
ADVANCED RESEARCH PROJECTS AGENCY - ENERGY	81.135		RENSSELAER POLYTECHNIC INSTITUTE
ADVANCED RESEARCH FROSECTS MOUNCE - LINEROT	01.133		MASSACHUSETTS INSTITUTE OF
ADVANCED RESEARCH PROJECTS AGENCY - ENERGY	81.135		TECHNOLOGY
ADVANCED RESEARCH PROJECTS AGENCY - ENERGY	81.135		UNIVERSITY OF MICHIGAN
ADVANCED RESEARCH PROJECTS AGENCY - ENERGY	81.135		CARNEGIE MELLON UNIVERSITY
ADVANCED RESEARCH PROJECTS AGENCY - ENERGY	81.135		PENNSYLVANIA STATE UNIVERSITY
ADVANCED RESEARCH PROJECTS AGENCY - ENERGY	81.135		
MINORITY ECONOMIC IMPACT	81.137		
ENLY/DONINAENTAL MONITORING /CLEANUR CHITTURAL AND RECOURSE MACAT			
ENVIRONMENTAL MONITORING/CLEANUP, CULTURAL AND RESOURCE MGMT.,	01 214		
EMERGENCY RESPONSE RESEARCH, OUTREACH, TECHNICAL ANALYSIS	81.214		

Identifying Number Assigned By Funder Pass-Through Entity	Total Amount Provided to Sub-Recipients	Federal Expenditures	Federal Program Total	Cluster Name	Cluster Total
"210345-01"		\$116,494	\$3,914,668	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"DE-EE0007888-09-6"		\$121,613	\$3,914,668	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"4"		\$202,264	\$3,914,668	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"UWSC11179"		\$278,130	\$3,914,668	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"DE-EE0007888-10-5"	\$295,926	<i>\$492,969</i> \$2,282,955	<i>\$3,914,668</i> \$3,914,668	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	<i>\$1,233,831,971</i> \$1,233,831,971
"SSA FOR GRA SUPPORT- FUJIMOTO"		\$9,457	\$1,857,421	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"M99005RR"		\$35,795	\$1,857,421	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"AWARD_CONTRACT_LINE_1 7362"		\$43,494	\$1,857,421	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"AGR DTD 1 APR 2020"		\$46,463	\$1,857,421	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"#16306016-01"	\$78,441	<i>\$278,106</i> \$1,444,106	<i>\$1,857,421</i> \$1,857,421	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$70,441	\$1,444,106	\$1,657,421	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"WORKFORCE (WORC II)"		\$88,766	\$608,577	N/A	\$0
"WORKFORCE (WORC)"		\$223,004	\$608,577	N/A	\$0
"1998F0586"		\$296,807	\$608,577	N/A	\$0
"00000919"		\$228,811	\$228,811	N/A	\$0
		\$238,117	\$238,117	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"2014-0501-05"		ĆE 027	Ć4 254 744	RESEARCH AND DEVELOPMENT	ć1 222 021 0 7 1
"SUBK0009797"		\$5,037 \$240,241	\$4,354,741 \$4,354,741	RESEARCH AND DEVELOPMENT	\$1,233,831,971 \$1,233,831,971
	\$2,890,426	\$4,109,463	\$4,354,741	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SUBEE0007667"		\$18,754	\$349,288	RESEARCH AND DEVELOPMENT	\$1,233,831,971
300220007007		<i>\$10,734</i>	<i>\$343,200</i>	NESE/INCHANGE DEVELOT MENT	<i>41,233,031,371</i>
20C42_044CF_C02	\$66,895	\$330,534	\$349,288	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"28643-04465-S02"		\$11,712	\$1,723,066	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"25-1120-0014-004"		\$34,542	\$1,723,066	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"#30308-05133-S01"		\$51,123	\$1,723,066	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$202,517	\$1,723,066	N/A	\$0
	\$410,573	\$1,423,172	\$1,723,066	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$76,699	\$339,342	\$339,342	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1000004071"		\$8,930	\$8,930	N/A	\$0
"A12820"		-\$14	\$3,057,827	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"S4872, PO#374367"		\$67,258	\$3,057,827	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SUBK00010993"		\$95,123	\$3,057,827	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1070254-427580"		\$106,719	\$3,057,827	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"FCCCUCREEARS : 2224"		4455.050	åa a== ===	DECEARCH AND DEVELOR (ST.	64 222 624 6=
"5666UGRFEARPA0821"	42.0 705	\$156,058	\$3,057,827	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$240,733	\$2,632,683	\$3,057,827	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$83,286	\$83,286	N/A	\$0
		\$185,277	\$6,210,078	N/A	\$0

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through	
Federal Awarding Agency/Program Title	Number	(Optional)	Entity	
ENVIRONMENTAL MONITORING/CLEANUP, CULTURAL AND RESOURCE MGMT.,				
EMERGENCY RESPONSE RESEARCH, OUTREACH, TECHNICAL ANALYSIS	81.214			
USDOE ASIAN FELLOWS PROGRAM	81.RD	400165132	UT-BATTELLE, LLC	
AQUEOUS AND SOLID PHASE CHARACTERIZATION OF POTENT	81.RD	SRRA151648	SAVANNAH RIVER REMEDIATION, LLC	
CRITICAL ELEMENT BIOMINING	81.RD	512932	SAVANNAH RIVER NUCLEAR SOLUTIONS, LLC	
			SAVANNAH RIVER NUCLEAR	
CO2 PHOTOCATALYSIS	81.RD	516654	SOLUTIONS, LLC SAVANNAH RIVER NUCLEAR	
SRNS TIMS BRANCH WETLAND SCIENTIFIC FOCUS AREA	81.RD	448600	SOLUTIONS, LLC	
VERIFICATION AND VALIDATION PROBLEMS FOR ACOUSTIC	81.RD	PO#2152262	5020776713, 220	
VEHILLE WILLIAM ON THOUSENING TO WARD STILL	OI.IID	10112132202	SAVANNAH RIVER NUCLEAR	
HYDROGEN PROCESS IMAGING USING MAGNETIC FIELDS	81.RD	2018-000008	SOLUTIONS, LLC	
			KENNESAW STATE UNIVERSITY	
			RESEARCH AND SERVICE	
DOE-LBNL U OF CA	81.RD	DE-AC02-05CH11231	FOUNDATION	
2017-18 SBC-CAT PERSONNEL ASSIGNMENT FOR GERD ROSE	81.RD	7F30217	UCHICAGO ARGONNE, LLC	
ELUCIDATING THE ROLE OF RECEPTOR LIKE KINASES IN W	81.RD	4000167801	UT-BATTELLE, LLC	
NUMERICAL METHODS FOR ADAPTIVE SPARSE GRID DISCRET	81.RD	4000172831	UT-BATTELLE, LLC	
			NATIONAL RENEWABLE ENERGY	
EASYER: ACCELERATING A METHOD TO EVOLVE NEW ENZYME	81.RD	XCE99201301	LABORATORY	
SREL R&D OF CEMENTITIOUS-TYPE MATERIALS AND SOIL	81.RD	SRRA099188	SAVANNAH RIVER REMEDIATION, LLC	
SHEE HOS OF CEMENTHOSS FITE MATTERIALES FITE SOIL	021112	5/11/1/1055100	LAWRENCE BERKELEY NATIONAL	
CHARACTERIZATION OF METAL-UTILIZATION AND METAL-RE	81.RD	7481316	LABORATORY	
THE CENTER FOR BIOENERGY INNOVATION	81.RD	4000158359	UT-BATTELLE, LLC	
TOTAL DEPARTMENT OF ENERGY				
DEPARTMENT OF EDUCATION				
ADULT EDUCATION - BASIC GRANTS TO STATES	84.002			
FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANTS	84.007			
FEDERAL SOFFLEMENTAL EDUCATIONAL OFFORTONITY GRANTS	64.007		BALDWIN COUNTY PUBLIC	
TITLE I GRANTS TO LOCAL EDUCATIONAL AGENCIES	84.010		SCHOOLS	
TITLE I GRANTS TO LOCAL EDUCATIONAL AGENCIES TITLE I GRANTS TO LOCAL EDUCATIONAL AGENCIES	84.010		3010013	
MIGRANT EDUCATION STATE GRANT PROGRAM				
	84.011			
TITLE I STATE AGENCY PROGRAM FOR NEGLECTED AND DELINQUENT CHILDREN AND YOUTH	84.013			
NATIONAL RESOURCE CENTERS PROGRAM FOR FOREIGN LANGUAGE AND AREA				
STUDIES OR FOREIGN LANGUAGE AND INTERNATIONAL STUDIES PROGRAM AND				
FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIP PROGRAM	84.015			
UNDERGRADUATE INTERNATIONAL STUDIES AND FOREIGN LANGUAGE PROGRAMS	84.016			
INTERNATIONAL RESEARCH AND STUDIES	84.016			
OVERSEAS PROGRAMS - DOCTORAL DISSERTATION RESEARCH ABROAD	84.022			
OVERSEAS PROGRAMIS - DOCTORAL DISSERTATION RESEARCH ABROAD	04.022			
SPECIAL EDUCATION GRANTS TO STATES	84.027		CLARKE COUNTY SCHOOL DISTRICT	
CDECIAL EDUCATION CDANTS TO STATES	04.027			
SPECIAL EDUCATION GRANTS TO STATES	84.027			
HIGHER EDUCATION INSTITUTIONAL AID	84.031			
HIGHER EDUCATION INSTITUTIONAL AID	84.031			
FEDERAL WORK-STUDY PROGRAM	84.033			
FEDERAL PERKINS LOAN (FPL)- FEDERAL CAPITAL CONTRIBUTIONS	84.038		GEORGIA SOUTHERN UNIVERSITY	
			RESEARCH AND SERVICE	
TRIO STUDENT SUPPORT SERVICES	84.042		FOUNDATION, INC.	
			GEORGIA SOUTHERN UNIVERSITY RESEARCH AND SERVICE	
TRIO STUDENT SUPPORT SERVICES	84.042		FOUNDATION, INC.	
INIO STUDENT SUFFURT SERVICES	04.042		FOUNDATION, INC.	

Identifying Number Assigned By Funder Pass-Through	Total Amount Provided to	Federal	Federal Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
		\$6,024,801	\$6,210,078	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"400165132"		-\$16,841	\$3,282,361	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"SRRA151648"		-\$11,414	\$3,282,361	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"512932"		\$3,775	\$3,282,361	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"516654"		\$4,487	\$3,282,361	RESEARCH AND DEVELOPMENT	\$1,233,831,97.
		. ,			
"448600"		<i>\$15,619</i> \$22,237	\$3,282,361 \$3,282,361	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,97 \$1,233,831,97
		322,237	33,282,301	RESEARCH AND DEVELOPMENT	\$1,233,631,57
"2018-000008"		\$25,745	\$3,282,361	RESEARCH AND DEVELOPMENT	\$1,233,831,97.
DE-AC02-05CH11231" "7F30217"		\$36,864	\$3,282,361	RESEARCH AND DEVELOPMENT	\$1,233,831,97 \$1,233,831,97
"4000167801"		\$38,624 \$40,676	\$3,282,361 \$3,282,361	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,97.
"4000107801		\$45,689	\$3,282,361	RESEARCH AND DEVELOPMENT	\$1,233,831,97
4000172031		Ş 4 3,003	73,282,301	RESEARCH AND DEVELOT WEINT	71,233,031,37
"XCE99201301"		\$67,547	\$3,282,361	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"SRRA099188"		\$169,301	\$3,282,361	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"7481316"		\$408,123	\$3,282,361	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"4000158359"		\$2,431,929	\$3,282,361	RESEARCH AND DEVELOPMENT	\$1,233,831,97
<u>-</u>	\$10,207,657	\$60,668,714			
	\$4,396,176	\$18,086,649	\$18,086,649	N/A	\$
		\$17,247,652	\$17,247,652	STUDENT FINANCIAL ASSISTANCE	\$2,071,661,24
					,
"36645/36687"	Ć550 004 204	\$43,727	\$575,649,110	N/A	\$(
	\$559,884,391	\$575,605,383	\$575,649,110	N/A	\$
	\$6,233,481	\$8,471,413	\$8,471,413	N/A	\$
	\$994,953	\$1,859,915	\$1,859,915	N/A	\$
	\$5,500	\$842,715	\$842,715	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$28,125	\$28,125	N/A	\$
		\$51,110	\$51,110	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$20,831	\$20,831	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"RCLCD0001097301"		\$54,780	\$376,173,351	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$358,789,551	\$376,118,571	\$376,173,351	SPECIAL EDUCATION CLUSTER (IDEA)	\$386,046,88
		\$452,369	\$21,676,677	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$21,224,308	\$21,676,677	N/A	\$
		\$9,655,236	\$9,655,236	STUDENT FINANCIAL ASSISTANCE	\$2,071,661,24
		\$19,522,480	\$19,522,480	STUDENT FINANCIAL ASSISTANCE	\$2,071,661,24
"62828292_27"		¢107 201	¢2 172 216	TRIO CLUSTER	¢11 077 20
"63828383-27"		\$197,381	\$3,473,216	TRIO CLUSTER	\$11,877,38

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
TRIO STUDENT SUPPORT SERVICES	84.042		
TRIO STUDENT SUPPORT SERVICES	84.042		
TRIO TALENT SEARCH	84.044		
TRIO TALENT SEARCH	84.044		
TRIO UPWARD BOUND	84.047		KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE FOUNDATION
THIS OF WARD BOOME	04.047		KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE
TRIO UPWARD BOUND	84.047		FOUNDATION KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
TRIO UPWARD BOUND	84.047		FOUNDATION
TRIO UPWARD BOUND	84.047		
TRIO UPWARD BOUND	84.047		
CAREER AND TECHNICAL EDUCATION BASIC GRANTS TO STATES	84.048		CTAE DESCRIBEE METIMORY INC
CAREER AND TECHNICAL EDUCATION BASIC GRANTS TO STATES CAREER AND TECHNICAL EDUCATION BASIC GRANTS TO STATES	84.048		CTAE RESOURCE NETWORK, INC.
CAREER AND TECHNICAL EDUCATION BASIC GRANTS TO STATES CAREER AND TECHNICAL EDUCATION NATIONAL PROGRAMS	84.048 84.051		GWINNETT COUNTY
FEDERAL PELL GRANT PROGRAM	84.063		GWINNETT COUNTY
TRIO EDUCATIONAL OPPORTUNITY CENTERS	84.066		
FUND FOR THE IMPROVEMENT OF POSTSECONDARY EDUCATION	84.116		
TOND FOR THE INFROVENIENT OF TOSTSECONDART EDUCATION	04.110		GEORGIA SOUTHERN UNIVERSITY RESEARCH AND SERVICE
FUND FOR THE IMPROVEMENT OF POSTSECONDARY EDUCATION	84.116		FOUNDATION, INC.
FUND FOR THE IMPROVEMENT OF POSTSECONDARY EDUCATION	84.116		
MINORITY SCIENCE AND ENGINEERING IMPROVEMENT	84.120		
MINORITY SCIENCE AND ENGINEERING IMPROVEMENT	84.120		
REHABILITATION SERVICES VOCATIONAL REHABILITATION GRANTS TO STATES	84.126		
REHABILITATION LONG-TERM TRAINING	84.129		
MIGRANT EDUCATION HIGH SCHOOL EQUIVALENCY PROGRAM	84.141		
MIGRANT EDUCATION COULER ASSISTANCE MIGRANT PROCESAM	84.144		
MIGRANT EDUCATION COLLEGE ASSISTANCE MIGRANT PROGRAM	84.149		
SPECIAL EDUCATION PRESCHOOL GRANTS	84.173		
REHABILITATION SERVICES INDEPENDENT LIVING SERVICES FOR OLDER INDIVIDUALS			
WHO ARE BLIND	84.177		
REHABILITATION SERVICES INDEPENDENT LIVING SERVICES FOR OLDER INDIVIDUALS			
WHO ARE BLIND	84.177		
SPECIAL EDUCATION-GRANTS FOR INFANTS AND FAMILIES	84.181		
SCHOOL SAFETY NATIONAL ACTIVITIES (FORMERLY, SAFE AND DRUG-FREE SCHOOLS AND COMMUNITIES-NATIONAL PROGRAMS)	84.184		
SUPPORTED EMPLOYMENT SERVICES FOR INDIVIDUALS WITH THE MOST SIGNIFICANT DISABILITIES	84.187		
EDUCATION FOR HOMELESS CHILDREN AND YOUTH	84.196		
GRADUATE ASSISTANCE IN AREAS OF NATIONAL NEED	84.200		
GRADUATE ASSISTANCE IN AREAS OF NATIONAL NEED	84.200		
INNOVATIVE APPROACHES TO LITERACY, FULL-SERVICE COMMUNITY SCHOOLS; AND	011200		
PROMISE NEIGHBORHOODS	84.215		
			GEORGIA SOUTHERN UNIVERSITY RESEARCH AND SERVICE
TRIO MCNAIR POST-BACCALAUREATE ACHIEVEMENT	84.217		FOUNDATION, INC.
TRIO MCNAIR POST-BACCALAUREATE ACHIEVEMENT	84.217		
TRIO MCNAIR POST-BACCALAUREATE ACHIEVEMENT	84.217		
CENTERS FOR INTERNATIONAL BUSINESS EDUCATION	84.220		
CENTERS FOR INTERNATIONAL BUSINESS EDUCATION	84.220		
LANGUAGE RESOURCE CENTERS	84.229		
REHABILITATION SERVICES DEMONSTRATION AND TRAINING PROGRAMS	84.235		
			WEST VIRGINIA UNIVERSITY
INNOVATIVE REHABILITATION TRAINING	84.263		RESEARCH CORPORATION
FEDERAL DIRECT STUDENT LOANS	84.268		
CHARTER SCHOOLS	84.282		

Identifying Number Assigned By Funder	Total Amount		Federal		
Pass-Through	Provided to	Federal	Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
		\$626,835	\$3,473,216	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		\$2,448,467	\$3,473,216	TRIO CLUSTER	\$11,877,3
		\$645,528	\$2,536,045	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		\$1,890,517	\$2,536,045	TRIO CLUSTER	\$11,877,3
"PO47M170078"		\$245,844	\$7,038,593	TRIO CLUSTER	\$11,877,3
"P047A170766"		\$248,722	\$7,038,593	TRIO CLUSTER	\$11,877,3
"P047A170751"		\$257,369	\$7,038,593	TRIO CLUSTER	\$11,877,3
		\$827,814	\$7,038,593	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		\$5,458,844	\$7,038,593	TRIO CLUSTER	\$11,877,3
"CTAE6073"		\$27,586	\$45,057,200	N/A	
	\$19,293,838	\$45,029,614	\$45,057,200	N/A	
"CON013286"		\$15,969	\$15,969	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		\$727,755,031	\$727,755,031	STUDENT FINANCIAL ASSISTANCE	\$2,071,661,2
		\$339,916	\$339,916	TRIO CLUSTER	\$11,877,
		\$50	\$255,803	N/A	
"63828383-28"		\$9,442	\$255,803	N/A	
	\$205,893	\$246,311	\$255,803	RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$175,557	\$488,707	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		\$313,150	\$488,707	N/A	
		\$44,772,331	\$44,772,331	N/A	
		\$338,500	\$338,500	N/A	
		\$740,653	\$740,653	N/A	
		\$39,438 \$1,196,649	\$39,438 \$1,196,649	N/A N/A	
	\$9,818,964	\$9,928,309	\$9,928,309	SPECIAL EDUCATION CLUSTER (IDEA)	\$386,046,
		\$457,813	\$1,452,608	RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$994,795	\$1,452,608	N/A	
		\$14,255,523	\$14,255,523	N/A	
		\$493,990	\$493,990	N/A	
		\$668,524	\$668,524	N/A	
	\$2,925,662	\$3,229,824	\$3,229,824	N/A	
		\$15,582 \$321,510	\$337,092 \$337,092	N/A RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$427,900	\$427,900	N/A	
		Ç .27,300	Ţ.27,500		
"63828383-48"		\$206,556	\$837,352	TRIO CLUSTER	\$11,877,
		\$247,557	\$837,352	RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$383,239	\$837,352	TRIO CLUSTER	\$11,877,
		-\$4,266	\$563,503	N/A	
		\$567,769	\$563,503	RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$154,793	\$154,793	RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$287,068	\$287,068	N/A	
		445.404	Ć45.404	A1 / A	
NO UNIQUE NUMBER"		\$45,181	\$45,181	N/A	
NO UNIQUE NUMBER"		\$45,181 \$1,291,053,736	\$45,181	STUDENT FINANCIAL ASSISTANCE	\$2,071,661,2

	Federal	Additional Award	Name of Funder
Endough Assentation Annual December Title	CFDA	Identification	Pass-Through
Federal Awarding Agency/Program Title TWENTY-FIRST CENTURY COMMUNITY LEARNING CENTERS	<i>Number</i> 84.287	(Optional)	Entity QUESTAR ASSESSMENT, INC.
WENTY-FIRST CENTURY COMMUNITY LEARNING CENTERS	84.287		QUESTAN ASSESSIVIENT, INC.
WENTY-FIRST CENTURY COMMUNITY LEARNING CENTERS	84.287		
			CORPORATION FOR PUBLIC
READY-TO-LEARN TELEVISION	84.295		BROADCASTING
EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	84.305		FLORIDA STATE UNIVERSITY
EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	84.305		UNIVERSITY OF CINCINNATI
EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	84.305		MICHIGAN STATE UNIVERSITY
			UNIVERSITY OF MARYLAND,
EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	84.305		BALTIMORE COUNTY
			KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE
EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	84.305		FOUNDATION
EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	84.305		UNIVERSITY OF MEMPHIS
			UNIVERSITY OF SOUTHERN
EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	84.305		CALIFORNIA
EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	84.305		FLORIDA STATE UNIVERSITY
EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	84.305		ARIZONA STATE UNIVERSITY
EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	84.305		UNIVERSITY OF MEMPHIS
EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	84.305		ARIZONA STATE UNIVERSITY
			CALIFORNIA STATE UNIVERSITY,
EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	84.305		LONG BEACH
EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	84.305		ARIZONA STATE UNIVERSITY
DUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	84.305		
PECIAL EDUCATION - STATE PERSONNEL DEVELOPMENT	84.323		
RESEARCH IN SPECIAL EDUCATION	84.324		UNIVERSITY OF TENNESSEE
RESEARCH IN SPECIAL EDUCATION	84.324		SETON HALL UNIVERSITY
RESEARCH IN SPECIAL EDUCATION	84.324		INDIANA UNIVERSITY
ESEARCH IN SPECIAL EDUCATION	84.324		
SPECIAL EDUCATION - PERSONNEL DEVELOPMENT TO IMPROVE SERVICES	0.4.00=		
AND RESULTS FOR CHILDREN WITH DISABILITIES	84.325		UNIVERSITY OF FLORIDA
SPECIAL EDUCATION - PERSONNEL DEVELOPMENT TO IMPROVE SERVICES	04 225		LINUVERCITY OF ELORIDA
AND RESULTS FOR CHILDREN WITH DISABILITIES SPECIAL EDUCATION - PERSONNEL DEVELOPMENT TO IMPROVE SERVICES	84.325		UNIVERSITY OF FLORIDA
AND RESULTS FOR CHILDREN WITH DISABILITIES	84.325		EAST CAROLINA UNIVERSITY
SPECIAL EDUCATION - PERSONNEL DEVELOPMENT TO IMPROVE SERVICES	64.323		LAST CAROLINA UNIVERSITI
AND RESULTS FOR CHILDREN WITH DISABILITIES	84.325		EAST CAROLINA UNIVERSITY
SPECIAL EDUCATION - PERSONNEL DEVELOPMENT TO IMPROVE SERVICES	04.323		ENST CHILDENAL STATEMENT
AND RESULTS FOR CHILDREN WITH DISABILITIES	84.325		VANDERBILT UNIVERSITY
SPECIAL EDUCATION - PERSONNEL DEVELOPMENT TO IMPROVE SERVICES			
AND RESULTS FOR CHILDREN WITH DISABILITIES	84.325		UNIVERSITY OF CONNECTICUT
SPECIAL EDUCATION - PERSONNEL DEVELOPMENT TO IMPROVE SERVICES			
AND RESULTS FOR CHILDREN WITH DISABILITIES	84.325		VANDERBILT UNIVERSITY
PECIAL EDUCATION - PERSONNEL DEVELOPMENT TO IMPROVE SERVICES AND			
ESULTS FOR CHILDREN WITH DISABILITIES	84.325		
PECIAL EDUCATION - PERSONNEL DEVELOPMENT TO IMPROVE SERVICES AND			
ESULTS FOR CHILDREN WITH DISABILITIES	84.325		
PECIAL EDUCATION TECHNICAL ASSISTANCE AND DISSEMINATION TO IMPROVE			
ERVICES AND RESULTS FOR CHILDREN WITH DISABILITIES	84.326		
PECIAL EDUCATION EDUCATIONAL TECHNOLOGY MEDIA, AND MATERIALS FOR			
NDIVIDUALS WITH DISABILITIES	84.327		
GAINING EARLY AWARENESS AND READINESS FOR UNDERGRADUATE			DOUGHERTY COUNTY SCHOOL
PROGRAMS	84.334		SYSTEM
			KENNESAW STATE UNIVERSITY
GAINING EARLY AWARENESS AND READINESS FOR UNDERGRADUATE			RESEARCH AND SERVICE
PROGRAMS	84.334		FOUNDATION
GAINING EARLY AWARENESS AND READINESS FOR UNDERGRADUATE			
PROGRAMS	84.334		UNIVERSITY OF MONTEVALLO
AINING EARLY AWARENESS AND READINESS FOR UNDERGRADUATE PROGRAMS	84.334		
HILD CARE ACCESS MEANS PARENTS IN SCHOOL	84.335		
CHILD CARE ACCESS MEANS PARENTS IN SCHOOL	84.335		

Assigned By Funder	Total Amount	Fadaud	Federal	Clust	Cl
Pass-Through	Provided to	Federal	Program	Cluster	Cluster
Entity RQSTRRE218324CV"	Sub-Recipients	Expenditures -\$832	Total \$39,612,828	Name RESEARCH AND DEVELOPMENT	Total \$1,233,831,9
NU31KKE210324CV		\$33,825	\$39,612,828	RESEARCH AND DEVELOPMENT	\$1,233,831,
	\$36,452,636	\$39,579,835	\$39,612,828	N/A	71,233,631,
24024 FDL		ć20.002	¢20.002	N/A	
"34824-EDU" "CON011148"		\$38,002	\$38,002	N/A RESEARCH AND DEVELOPMENT	¢1 222 021
"CON011148		-\$1,336 \$184	\$1,519,337	RESEARCH AND DEVELOPMENT	\$1,233,831, \$1,233,831,
"CON012243		\$4,437	\$1,519,337 \$1,519,337	RESEARCH AND DEVELOPMENT	\$1,233,831,
CON003784		у 4 ,437	71,319,337	RESEARCH AND DEVELOPMENT	¥1,233,631,.
"CON012630"		\$5,768	\$1,519,337	RESEARCH AND DEVELOPMENT	\$1,233,831,
"R305A180509"		\$10,803	\$1,519,337	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON012616"		\$13,240	\$1,519,337	RESEARCH AND DEVELOPMENT	\$1,233,831,
CON012010		\$13,240	\$1,513,557	RESEARCH AIND DEVELOPINIENT	\$1,233,631,
"105762552"		\$26,141	\$1,519,337	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON012288"		\$40,760	\$1,519,337	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON009851"		<i>\$52,556</i>	\$1,519,337	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON012875"		\$70,213	\$1,519,337	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON011146"		\$80,329	\$1,519,337	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON011095"		\$96,561	\$1,519,337	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON011261"		\$104,459	\$1,519,337	RESEARCH AND DEVELOPMENT	\$1,233,831,
	\$493,074	\$1,015,222	\$1,519,337	RESEARCH AND DEVELOPMENT	\$1,233,831,
	\$140,008	\$1,861,976	\$1,861,976	N/A	
"CON008400"		\$16,030	\$317,079	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON012482"		\$57,566	\$317,079	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON009836"		\$72,562	\$317,079	RESEARCH AND DEVELOPMENT	\$1,233,831,
	\$5,640	\$170,921	\$317,079	RESEARCH AND DEVELOPMENT	\$1,233,831,
"30486"		-\$3,166	\$1,227,960	RESEARCH AND DEVELOPMENT	\$1,233,831,
"H325A120003"		\$1,140	\$1,227,960	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON012432"		\$6,301	\$1,227,960	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON014386"		\$18,822	\$1,227,960	RESEARCH AND DEVELOPMENT	\$1,233,831,
"UNIV60494"		\$62,052	\$1,227,960	RESEARCH AND DEVELOPMENT	\$1,233,831,
"UCHC7127389375"		\$65,608	\$1,227,960	RESEARCH AND DEVELOPMENT	\$1,233,831,
"UNIV61390"		\$69,062	\$1,227,960	RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$420,068	\$1,227,960	N/A	
		\$588,073	\$1,227,960	RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$281,286	\$281,286	RESEARCH AND DEVELOPMENT	\$1,233,831
		\$67,728	\$67,728	RESEARCH AND DEVELOPMENT	\$1,233,831
"P334A180146"		\$11,177	\$3,458,009	N/A	
"P334SI60030"		\$124,425	\$3,458,009	N/A	
"CON011827"	\$45,246	\$283,667	\$3,458,009	RESEARCH AND DEVELOPMENT	\$1,233,831,
	Ć1 3C0 010	¢2.020.740	Ć2 4E0 000	NI/A	
	\$1,260,810	\$3,038,740 \$228,293	\$3,458,009 \$466,055	N/A N/A	

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity SOUTHERN REGIONAL EDUCATION
TEACHER QUALITY PARTNERSHIP GRANTS	84.336		BOARD
TEACHER QUALITY PARTNERSHIP GRANTS	84.336		
RURAL EDUCATION	84.358		
ENGLISH LANGUAGE ACQUISITION STATE GRANTS	84.365		
ENGLISH LANGUAGE ACQUISITION STATE GRANTS	84.365		
SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS (FORMERLY IMPROVING			
TEACHER QUALITY STATE GRANTS)	84.367		
SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS (FORMERLY	04.267		NATIONAL MUNITING PROJECT
IMPROVING TEACHER QUALITY STATE GRANTS)	84.367		NATIONAL WRITING PROJECT
SUPPORTING EFFECTIVE INSTRUCTION STATE GRANTS (FORMERLY IMPROVING TEACHER QUALITY STATE GRANTS)	84.367		
GRANTS FOR STATE ASSESSMENTS AND RELATED ACTIVITIES	84.369		
COMPREHENSIVE LITERACY DEVELOPMENT	84.371		
SCHOOL IMPROVEMENT GRANTS	84.377		
TEACHER EDUCATION ASSISTANCE FOR COLLEGE AND HIGHER EDUCATION GRANTS			
(TEACH GRANTS)	84.379		
STRENGTHENING MINORITY-SERVING INSTITUTIONS	84.382		
			GEORGIA SOUTHERN UNIVERSITY
TRANSITION PROGRAMS FOR STUDENTS WITH INTELLECTUAL			RESEARCH AND SERVICE
DISABILITIES INTO HIGHER EDUCATION	84.407		FOUNDATION, INC.
TRANSITION PROGRAMS FOR STUDENTS WITH INTELLECTUAL DISABILITIES INTO			
HIGHER EDUCATION	84.407		
POSTSECONDARY EDUCATION SCHOLARSHIPS FOR VETERAN'S DEPENDENTS	84.408		
EDUCATION INNOVATION AND RESEARCH (FORMERLY INVESTING IN	84.411		OUIO STATE LINUVERSITY
INNOVATION (I3) FUND) RACE TO THE TOP EARLY LEARNING CHALLENGE	84.411		OHIO STATE UNIVERSITY
SUPPORTING EFFECTIVE EDUCATOR DEVELOPMENT PROGRAM	84.423		
STUDENT SUPPORT AND ACADEMIC ENRICHMENT PROGRAM	84.424		
STOPENT SOLT ON TAID ACTIVITIES ENTREMENTED THOUSAND	04.424		UNIVERSITY OF MARYLAND
COVID - 19 - GOVERNORS EMERGENCY EDUCATION RELIEF (GEER) FUND	84.425	COVID - 19, 84.425C	FOUNDATION, INC.
COVID - 19 - CORONAVIRUS RESPONSE AND RELIEF SUPPLEMENTAL		.,	
APPROPRIATIONS ACT, 2021 EMERGENCY ASSISTANCE FOR NON-PUBLIC SCHOOLS			
(CRRSA EANS) PROGRAM	84.425	COVID - 19, 84.425R	
COVID - 19 - DISCRETIONARY GRANTS: RETHINK K-12 EDUCATION MODELS GRANTS	84.425	COVID - 19, 84.425B	
COVID - 19 - HEERF MINORITY SERVING INSTITUTIONS (MSIS)	84.425	COVID - 19, 84.425L	
COVID - 19 - HEERF STRENGTHENING INSTITUTIONS PROGRAM (SIP)	84.425	COVID - 19, 84.425M	
	04.405	001115 40 04 4051	
COVID - 19 - HEERF HISTORICALLY BLACK COLLEGES AND UNIVERSITIES (HBCUS)	84.425	COVID - 19, 84.425J	
COVID - 19 - GOVERNORS EMERGENCY EDUCATION RELIEF (GEER) FUND COVID - 19 - HIGHER EDUCATION EMERGENCY RELIEF FUND (HEERF) STUDENT AID	84.425	COVID - 19, 84.425C	
PORTION	84.425	COVID - 19, 84.425E	
COVID - 19 - HEERF INSTITUTIONAL AID PORTION	84.425	COVID - 19, 84.425F	
COVID - 19 - AMERICAN RESCUE PLAN - ELEMENTARY AND SECONDARY SCHOOL	04.423	COVID 13, 04.4231	
EMERGENCY RELIEF (ARP ESSER)	84.425	COVID - 19, 84.425U	
COVID - 19 - ELEMENTARY AND SECONDARY SCHOOL EMERGENCY RELIEF (ESSER)		.,	
FUND	84.425	COVID - 19, 84.425D	
NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS	84.U33	ED-IES-14-C-0071	
TOTAL DEPARTMENT OF EDUCATION			
NATIONAL ARCHIVES & RECORDS ADMINISTRATION			
NATIONAL HISTORICAL DUDUCATIONS AND RECORDS CRANTS	90.003		
NATIONAL HISTORICAL PUBLICATIONS AND RECORDS GRANTS TOTAL NATIONAL ARCHIVES & RECORDS ADMINISTRATION	89.003		
DELTA REGIONAL AUTHORITY or DENALI COMMISSION or ELECTION ASSISTANCE COMMISSION or JAPAN U.S. FRIENDSHIP COMMISSION			
2018 HAVA ELECTION SECURITY GRANTS	90.404		

Identifying Number Assigned By Funder Pass-Through Entity	Total Amount Provided to Sub-Recipients	Federal Expenditures	Federal Program Total	Cluster Name	Cluster Total
"36690"	4	\$105,404	\$1,057,230	N/A	\$(
	\$127,269	\$951,826	\$1,057,230	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$5,912,795	\$6,254,043	\$6,254,043	N/A	\$1
	4	\$657,845	\$18,039,818	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$16,005,593	\$17,381,973	\$18,039,818	N/A	\$1
		-\$165	\$65,256,175	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"U367DI50004"		\$138	\$65,256,175	N/A	\$0
	\$63,481,892	\$65,256,202	\$65,256,175	N/A	Şı
	\$05,461,692			N/A	ې ا\$
	\$34,378,405	\$11,941,702	\$11,941,702	N/A	\$
		\$35,447,976	\$35,447,976		
	\$5,912,183	\$6,565,813	\$6,565,813	N/A	\$
		\$1,848,086	\$1,848,086	STUDENT FINANCIAL ASSISTANCE	\$2,071,661,24
		\$5,018,588	\$5,018,588	N/A	\$2,071,001,24
		75,010,566	\$3,016,366	NA	Y
"63828383-32"		\$13,446	\$311,575	N/A	\$1
		\$298,129	\$311,575	N/A	\$
		\$13,461	\$13,461	STUDENT FINANCIAL ASSISTANCE	\$2,071,661,24
"CON012019"		\$72,295	\$72,295	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$213,769	\$213,769	N/A	\$
	\$1,014,295	\$2,621,187	\$2,621,187	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$39,464,885	\$41,123,903	\$41,123,903	N/A	\$
"MSDE000701"		\$16,802	\$2,024,766,706	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$503,345	\$648,219	\$2,024,766,706	N/A	\$
	\$303,343	Ç040,213	\$2,024,700,700	IV/A	_
		\$880,676	\$2,024,766,706	N/A	Ş
		\$6,382,763	\$2,024,766,706	N/A	\$
		\$9,520,331	\$2,024,766,706	N/A	\$
		\$17,788,240	\$2,024,766,706	N/A	\$
	\$193,682	\$33,127,543	\$2,024,766,706	N/A	Ş
	¢2.002.44.6	6457.072.504	62.024.766.706	21/2	
	\$2,993,416	\$157,872,591	\$2,024,766,706	N/A	Ç
		\$262,460,465	\$2,024,766,706	N/A	\$
	\$279,441,622	\$280,389,329	\$2,024,766,706	N/A	\$
	\$1,254,355,848	\$1,255,679,747	\$2,024,766,706	N/A	Ç
	ψ <u>1,23</u> 4,333,040	\$134,775	\$134,775	N/A	Ş
		7-0-1,1-0	7-2-7		•
	\$2,723,423,073	\$5,495,639,447			
	\$21,660	\$105,536	\$105,536	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$21,660	\$105,536			
		\$15,189,981	\$15,189,981	N/A	\$

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
TOTAL DELTA REGIONAL AUTHORITY OF DENALI COMMISSION OF ELECTION ASSISTANCE COMMISSION OF JAPAN U.S. FRIENDSHIP COMMISSION			
DEPARTMENT OF HEALTH AND HUMAN SERVICES			
PUBLIC AWARENESS CAMPAIGNS ON EMBRYO ADOPTION	93.007		ST. JUDE CHILDREN'S RESEARCH
MEDICAL RESERVE CORPS SMALL GRANT PROGRAM SPECIAL PROGRAMS FOR THE AGING, TITLE VII, CHAPTER 3, PROGRAMS FOR	93.008		HOSPITAL
PREVENTION OF ELDER ABUSE, NEGLECT, AND EXPLOITATION COVID - 19 - SPECIAL PROGRAMS FOR THE AGING, TITLE VII, CHAPTER 2, LONG TERM	93.041		
CARE OMBUDSMAN SERVICES FOR OLDER INDIVIDUALS	93.042	COVID - 19	
SPECIAL PROGRAMS FOR THE AGING, TITLE VII, CHAPTER 2, LONG TERM CARE OMBUDSMAN SERVICES FOR OLDER INDIVIDUALS	93.042		
SPECIAL PROGRAMS FOR THE AGING, TITLE III, PART D, DISEASE PREVENTION AND HEALTH PROMOTION SERVICES	93.043		
COVID - 19 - SPECIAL PROGRAMS FOR THE AGING, TITLE III, PART B, GRANTS FOR			
SUPPORTIVE SERVICES AND SENIOR CENTERS SPECIAL PROGRAMS FOR THE AGING, TITLE III, PART B, GRANTS FOR SUPPORTIVE	93.044	COVID - 19	
SERVICES AND SENIOR CENTERS	93.044		
COVID - 19 - SPECIAL PROGRAMS FOR THE AGING, TITLE III, PART C, NUTRITION			
SERVICES	93.045	COVID - 19	
SPECIAL PROGRAMS FOR THE AGING, TITLE III, PART C, NUTRITION SERVICES SPECIAL PROGRAMS FOR THE AGING, TITLE IV, AND TITLE II, DISCRETIONARY	93.045		
PROJECTS	93.048		
SPECIAL PROGRAMS FOR THE AGING, TITLE IV, AND TITLE II, DISCRETIONARY PROJECTS	93.048		
COVID - 19 - SPECIAL PROGRAMS FOR THE AGING, TITLE IV, AND TITLE II,			
DISCRETIONARY PROJECTS ALZHEIMER'S DISEASE DEMONSTRATION GRANTS TO STATES	93.048 93.051	COVID - 19	
	33.031		
NATIONAL FAMILY CAREGIVER SUPPORT, TITLE III, PART E	93.052		CSRA AREA AGENCY ON AGING SOUTHERN GEORGIA REGIONAL
NATIONAL FAMILY CAREGIVER SUPPORT, TITLE III, PART E	93.052		COMMISSION
COVID - 19 - NATIONAL FAMILY CAREGIVER SUPPORT, TITLE III, PART E NATIONAL FAMILY CAREGIVER SUPPORT, TITLE III, PART E	93.052 93.052	COVID - 19	
NUTRITION SERVICES INCENTIVE PROGRAM	93.052		
TRAINING IN GENERAL, PEDIATRIC, AND PUBLIC HEALTH DENTISTRY	93.059		
GLOBAL AIDS	93.067		EMORY UNIVERSITY
GLOBAL AIDS	93.067		EMORY UNIVERSITY
GLOBAL AIDS	93.067		EMORY UNIVERSITY
GLOBAL AIDS	93.067		EMORY UNIVERSITY
COVID - 19 - GLOBAL AIDS	93.067	COVID - 19	EMORY UNIVERSITY
GLOBAL AIDS	93.067		EMORY UNIVERSITY GEORGIA SOUTHERN UNIVERSITY
CLODAL AIDS	02.007		RESEARCH AND SERVICE
GLOBAL AIDS	93.067	COVID 10	FOUNDATION, INC.
COVID - 19 - GLOBAL AIDS COVID - 19 - GLOBAL AIDS	93.067 93.067	COVID - 19 COVID - 19	EMORY UNIVERSITY EMORY UNIVERSITY
GLOBAL AIDS	93.067	COVID - 19	EMORY UNIVERSITY EMORY UNIVERSITY
CHRONIC DISEASES: RESEARCH, CONTROL, AND PREVENTION	93.068		NORTHROP GRUMMAN CORPORATION
PUBLIC HEALTH EMERGENCY PREPAREDNESS	93.069		22 310111014
ENVIRONMENTAL PUBLIC HEALTH AND EMERGENCY RESPONSE	93.070		
MEDICARE ENROLLMENT ASSISTANCE PROGRAM	93.071		
BIRTH DEFECTS AND DEVELOPMENTAL DISABILITIES - PREVENTION AND			
SURVEILLANCE BIRTH DEFECTS AND DEVELOPMENTAL DISABILITIES - PREVENTION AND CLIPAGE LANCE.	93.073		TACKEODCE FOR CLORAL UE
SURVEILLANCE BIRTH DEFECTS AND DEVELOPMENTAL DISABILITIES - PREVENTION AND	93.073		TASKFORCE FOR GLOBAL HEALTH
SURVEILLANCE	93.073		UNIVERSITY OF SOUTH CAROLINA

Identifying Number Assigned By Funder Pass-Through	Total Amount Provided to	Federal	Federal Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
		\$15,189,981			
		-\$276	-\$276	RESEARCH AND DEVELOPMENT	\$1,233,831
"111978011-7615375"		-\$49,998	-\$49.998	RESEARCH AND DEVELOPMENT	\$1,233,831
111373011 7013373			, .,		<i>71,233,031</i>
		\$52,392	\$52,392	N/A	
	\$229,590	\$355,795	\$779,291	N/A	
	\$278,495	\$423,496	\$779,291	N/A	
	\$514,952	\$514,952	\$514,952	N/A	
	\$2,552,611	\$2,685,755	\$12,382,086	AGING CLUSTER	\$48,071
	\$7,545,264	\$9,696,331	\$12,382,086	AGING CLUSTER	\$48,071
	\$12,096,017	\$12,096,017	\$32,629,149	AGING CLUSTER	\$48,071
	\$19,319,014	\$20,533,132	\$32,629,149	AGING CLUSTER	\$48,071
	\$27,834	\$254,213	\$1,371,107	RESEARCH AND DEVELOPMENT	\$1,233,831
	\$123,248	\$261,782	\$1,371,107	N/A	
	\$774,954	\$855,112	\$1,371,107	N/A	
		\$23,974	\$23,974	N/A	
OAA TITLE III E - FAMILY CAREGIVER SUPORT"		\$14,736	\$4,572,713	N/A	
		4	4		
"AAA-2019-07"	ć772 002	\$63,322	\$4,572,713	N/A	
	\$772,092 \$2,859,587	\$772,092 \$3,722,563	\$4,572,713	N/A N/A	
	\$3,060,257	\$3,060,257	\$4,572,713 \$3,060,257	AGING CLUSTER	\$48,071
	\$3,000,237	\$102,816	\$102,816	N/A	Ç40,071
"T848250"		\$224	\$1,243,703	RESEARCH AND DEVELOPMENT	\$1,233,831
"A222012"		\$11,489	\$1,243,703	RESEARCH AND DEVELOPMENT	\$1,233,831
"A329730"		\$44,508	\$1,243,703	RESEARCH AND DEVELOPMENT	\$1,233,831
"HHSN272201400004C"		\$56,490	\$1,243,703	RESEARCH AND DEVELOPMENT	\$1,233,831
"A344265"		\$64,310	\$1,243,703	RESEARCH AND DEVELOPMENT	\$1,233,831
"A126270"		\$64,764	\$1,243,703	RESEARCH AND DEVELOPMENT	\$1,233,831
"63828383-34"		\$101,042	\$1,243,703	RESEARCH AND DEVELOPMENT	\$1,233,831
"A400483"		\$101,042	\$1,243,703	RESEARCH AND DEVELOPMENT	\$1,233,831
"A344228"		\$165,047	\$1,243,703	RESEARCH AND DEVELOPMENT	\$1,233,831
"A180258"		\$601,439	\$1,243,703	RESEARCH AND DEVELOPMENT	\$1,233,831
"7500131662"		-\$4,747	-\$4,747	RESEARCH AND DEVELOPMENT	\$1,233,831
		\$15,317,183	\$15,317,183	N/A	
		\$684,867	\$684,867	N/A	
	\$318,156	\$575,590	\$575,590	N/A	
		-\$17,068	\$21,306	N/A	
"U380T000316"		\$12,339	\$21,306	RESEARCH AND DEVELOPMENT	\$1,233,831
"CON012981"		\$26,035	\$21,306	RESEARCH AND DEVELOPMENT	\$1,233,831

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title FAMILY SMOKING PREVENTION AND TOBACCO CONTROL ACT REGULATORY	Number	(Optional)	Entity
AMILY SMOKING PREVENTION AND TOBACCO CONTROL ACT REGULATORY	93.077		
COOPERATIVE AGREEMENTS TO PROMOTE ADOLESCENT HEALTH THROUGH	93.077		
SCHOOL-BASED HIV/STD PREVENTION AND SCHOOL-BASED SURVEILLANCE	93.079		
BLOOD DISORDER PROGRAM: PREVENTION, SURVEILLANCE, AND			
RESEARCH	93.080		HEMOPHILIA OF GEORGIA
BLOOD DISORDER PROGRAM: PREVENTION, SURVEILLANCE, AND			
RESEARCH	93.080		HEMOPHILIA OF GEORGIA
BLOOD DISORDER PROGRAM: PREVENTION, SURVEILLANCE, AND			
RESEARCH	93.080		HEMOPHILIA OF GEORGIA
NOOD DICORDED DROCDAMA, DREVENTION, CURVENTANCE, AND DECEARCH	02.000		
BLOOD DISORDER PROGRAM: PREVENTION, SURVEILLANCE, AND RESEARCH PREVENTION OF DISEASE, DISABILITY, AND DEATH BY INFECTIOUS	93.080		
DISEASES	93.084		STATE UNIVERSITY OF NEW YORK
PREVENTION OF DISEASE, DISABILITY, AND DEATH BY INFECTIOUS	33.004		STATE ON VENSITY OF NEW YORK
DISEASES	93.084		UNIVERSITY OF VIRGINIA
PREVENTION OF DISEASE, DISABILITY, AND DEATH BY INFECTIOUS			
DISEASES	93.084		EMORY UNIVERSITY
PREVENTION OF DISEASE, DISABILITY, AND DEATH BY INFECTIOUS			
DISEASES	93.084		EMORY UNIVERSITY
PREVENTION OF DISEASE, DISABILITY, AND DEATH BY INFECTIOUS			
DISEASES	93.084		STATE UNIVERSITY OF NEW YORK
HEALTHY MARRIAGE PROMOTION AND RESPONSIBLE FATHERHOOD GRANTS THANCE SAFETY OF CHILDREN AFFECTED BY SUBSTANCE ABUSE	93.086 93.087		
INHANCE SAFETT OF CHILDREN AFFECTED BY SUBSTAINCE ABUSE	93.067		
AFFORDABLE CARE ACT (ACA) PERSONAL RESPONSIBILITY EDUCATION PROGRAM	93.092		
OOD AND DRUG ADMINISTRATION RESEARCH	93.103		
			MASSACHUSETTS GENERAL
FOOD AND DRUG ADMINISTRATION RESEARCH	93.103		HOSPITAL
FOOD AND DRUG ADMINISTRATION RESEARCH	93.103		
COMPREHENSIVE COMMUNITY MENTAL HEALTH SERVICES FOR CHILDREN WITH			
SERIOUS EMOTIONAL DISTURBANCES (SED)	93.104		
COVID - 19 - AREA HEALTH EDUCATION CENTERS	93.107	COVID - 19	
MATERIAL AND CHILD HEALTH FEDERAL CONCOURATED BROCKAMS	02.440		ASSOCIATION OF MATERNAL &
MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS	93.110 93.110		CHILD HEALTH PROGRAMS HEMOPHILIA OF GEORGIA
MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS	93.110		HEINIOPHILIA OF GEORGIA
MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS	93.110		HEMOPHILIA OF GEORGIA
WATERWALE THE CHIED THE TENT EDELINE CONSOLIDATED THOUSANDS	33.110		UNIVERSITY OF NORTH CAROLINA
MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS	93.110		AT CHAPEL HILL
			ASSOCIATION OF MATERNAL &
MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS	93.110		CHILD HEALTH PROGRAMS
MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS	93.110		EMORY UNIVERSITY
MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS	93.110		UNIVERSITY OF NORTH CAROLINA
			UNIVERSITY OF NORTH CAROLINA
MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS	93.110		AT CHAPEL HILL
MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED DROCCANAS	02.110		UNIVERSITY OF NORTH CAROLINA
MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS	93.110		AT CHAPEL HILL UNIVERSITY OF NORTH CAROLINA
MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS	93.110		AT CHAPEL HILL
MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS	93.110		AT CHALLETTILL
ENVIRONMENTAL HEALTH	93.113		NORTHEASTERN UNIVERSITY
			FOUNDATION FOR APPLIED
ENVIRONMENTAL HEALTH	93.113		MOLECULAR EVOLUTION (FFAME,
ENVIRONMENTAL HEALTH	93.113		REPROTOX, LLC
ENVIRONMENTAL HEALTH	93.113		NORTHEASTERN UNIVERSITY
ENVIRONMENTAL HEALTH	93.113		UNIVERSITY OF MINNESOTA
ENVIRONMENTAL HEALTH	93.113		WASHINGTON STATE UNIVERSITY
	93.113		EMORY UNIVERSITY

Identifying Number Assigned By Funder Pass-Through Entity	Total Amount Provided to Sub-Recipients	Federal Expenditures	Federal Program Total	Cluster Name	Cluster Total
	\$392,127	\$2,267,789	\$2,267,789	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$105,992	\$105,992	N/A	\$(
"5NU27DD001155-05-00"		\$732	\$496,395	N/A	\$0
"1NU27DD001155-01-00"		\$1,389	\$496,395	N/A	\$0
"NU27DD000020-01-00"		\$18,500	\$496,395	N/A	\$0
	\$11,737	\$475,774	\$496,395	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON011936"		\$7,580	\$188,406	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"GF14330.PO 2306925"		\$15,000	\$188,406	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A425116"		\$42,683	\$188,406	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON014620"		\$48,361	\$188,406	RESEARCH AND DEVELOPMENT	\$1,233,831,97.
"CON014467"		<i>\$74,782</i>	\$188,406	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$56,350	\$1,165,682	\$1,165,682	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$37,964	\$191,191	\$191,191	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$924,564	\$1,652,870 \$16,293	\$1,652,870 \$3,237,428	N/A N/A	Ş
"236632"		\$78,662	\$3,237,428	RESEARCH AND DEVELOPMENT	\$1,233,831,97
255552	\$205,798	\$3,142,473	\$3,237,428	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$824,483	\$2,593,299 \$974,773	\$2,593,299 \$974,773	N/A N/A	ç
######################################	7024,403			·	
"CON012592"		-\$323	\$1,632,493	N/A	\$
"17H30MC24046"		<i>\$6,338</i> \$8,182	<i>\$1,632,493</i> \$1,632,493	<i>N/A</i> RESEARCH AND DEVELOPMENT	\$1,233,831,97
"H30MC24046-01-00"		\$10,500	\$1,632,493	N/A	\$1,233,631,37
"CON011812"		\$16,921	\$1,632,493	RESEARCH AND DEVELOPMENT	\$1,233,831,97
			,		
"CON013607"		\$20,428	\$1,632,493	N/A	\$
"CON013906"		\$34,499	\$1,632,493	N/A	\$
"CON013947"		\$55,502	\$1,632,493	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON012399"		\$66,956	\$1,632,493	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON014250"		\$147,206	\$1,632,493	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON013671"		\$221,682	\$1,632,493	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$27,077	\$1,044,602	\$1,632,493	N/A	Ç
"500612-78050"		-\$2,423	\$1,097,425	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON010760"		-\$610	\$1,097,425	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"PA-15-269"		\$51	\$1,097,425	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"500635-78050"		\$2,655	\$1,097,425	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"H007947801"		\$8,963	\$1,097,425	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON010993"		\$27,349	\$1,097,425	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"T779501"		\$97,945	\$1,097,425	RESEARCH AND DEVELOPMENT	\$1,233,831,97

	Federal	Additional Award	Name of Funder
	CFDA	Identification	Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
ENVIRONMENTAL HEALTH	93.113		EMORY UNIVERSITY
NVIRONMENTAL HEALTH	93.113		
PROJECT GRANTS AND COOPERATIVE AGREEMENTS FOR TUBERCULOSIS CONTROL	00.446		
PROGRAMS	93.116		
ACQUIRED IMMUNODEFICIENCY SYNDROME (AIDS) ACTIVITY	93.118		
0044 0455 4450 4440 046000500 0555 40644	00.404		WESTERN UNIVERSITY OF HEALTH
ORAL DISEASES AND DISORDERS RESEARCH	93.121		SCIENCES
ORAL DISEASES AND DISORDERS RESEARCH	93.121		EMORY UNIVERSITY
ORAL DISEASES AND DISORDERS RESEARCH	93.121		UNIVERSITY OF FLORIDA THE LUNDQUIST INSTITUTE FOR
ORAL DISEASES AND DISORDERS RESEARCH	93.121		BIOMEDICAL INNOVATION
DRAL DISEASES AND DISORDERS RESEARCH	93.121		
NURSE ANESTHETIST TRAINEESHIP	93.124		
MERGENCY MEDICAL SERVICES FOR CHILDREN	93.127		
CENTERS FOR RESEARCH AND DEMONSTRATION FOR HEALTH PROMOTION AND			
DISEASE PREVENTION	93.135		
			KENNESAW STATE UNIVERSITY
INJURY PREVENTION AND CONTROL RESEARCH AND STATE AND			RESEARCH AND SERVICE
COMMUNITY BASED PROGRAMS	93.136		FOUNDATION
			GEORGIA SOUTHERN UNIVERSITY
INJURY PREVENTION AND CONTROL RESEARCH AND STATE AND			RESEARCH AND SERVICE
COMMUNITY BASED PROGRAMS	93.136		FOUNDATION, INC.
INJURY PREVENTION AND CONTROL RESEARCH AND STATE AND			
COMMUNITY BASED PROGRAMS	93.136		UNIVERSITY OF IOWA
COVID - 19 - INJURY PREVENTION AND CONTROL RESEARCH AND STATE AND			
COMMUNITY BASED PROGRAMS	93.136	COVID - 19	
NJURY PREVENTION AND CONTROL RESEARCH AND STATE AND COMMUNITY			
BASED PROGRAMS	93.136		
NJURY PREVENTION AND CONTROL RESEARCH AND STATE AND COMMUNITY			
BASED PROGRAMS	93.136		
COVID - 19 - COMMUNITY PROGRAMS TO IMPROVE MINORITY HEALTH GRANT PROGRAM	93.137	COVID - 19	ASSOCIATION OF UNIVERSITY CENTERS ON DISABILITIES
CIVILET PROGRAM	33.137	COVID 13	CENTERS ON DISTIBLEMES
COMMUNITY PROGRAMS TO IMPROVE MINORITY HEALTH GRANT PROGRAM	93.137		
NIEHS SUPERFUND HAZARDOUS SUBSTANCES_BASIC RESEARCH AND			
EDUCATION	93.143		NORTHEASTERN UNIVERSITY
NIEHS SUPERFUND HAZARDOUS SUBSTANCES BASIC RESEARCH AND			
EDUCATION –	93.143		NORTHEASTERN UNIVERSITY
PROJECTS FOR ASSISTANCE IN TRANSITION FROM HOMELESSNESS (PATH)	93.150		
CENTERS OF EXCELLENCE	93.157		MEHARRY MEDICAL COLLEGE
HEALTH PROGRAM FOR TOXIC SUBSTANCES AND DISEASE REGISTRY	93.161		UNIVERSITY OF CALIFORNIA
HEALTH PROGRAM FOR TOXIC SUBSTANCES AND DISEASE REGISTRY	93.161		M S TECHNOLOGIES CORPORATION
HEALTH PROGRAM FOR TOXIC SUBSTANCES AND DISEASE REGISTRY	93.161		WEILL CORNELL MEDICINE
			UNIVERSITY OF ILLINOIS AT
HEALTH PROGRAM FOR TOXIC SUBSTANCES AND DISEASE REGISTRY	93.161		URBANA-CHAMPAIGN
HEALTH PROGRAM FOR TOXIC SUBSTANCES AND DISEASE REGISTRY	93.161		MAYO CLINIC, ROCHESTER
HEALTH PROGRAM FOR TOXIC SUBSTANCES AND DISEASE REGISTRY	93.161		COLORADO STATE UNIVERSITY
			NORTH CAROLINA STATE
HEALTH PROGRAM FOR TOXIC SUBSTANCES AND DISEASE REGISTRY	93.161		UNIVERSITY
HEALTH PROGRAM FOR TOXIC SUBSTANCES AND DISEASE REGISTRY	93.161		MAYO CLINIC, ROCHESTER
			INTERNATIONAL BUSINESS
HEALTH PROGRAM FOR TOXIC SUBSTANCES AND DISEASE REGISTRY	93.161		MACHINES CORPORATION
HEALTH PROGRAM FOR TOXIC SUBSTANCES AND DISEASE REGISTRY	93.161		BIRKELAND CURRENT
			INTERNATIONAL BUSINESS
HEALTH PROGRAM FOR TOXIC SUBSTANCES AND DISEASE REGISTRY	93.161		MACHINES CORPORATION
LIFALTH DROCDAM FOR TOVIC CURETANCES AND DISEASE DESCRIPTION	02.464		LINUVEDCITY OF TEXAS AT DAYLO
HEALTH PROGRAM FOR TOXIC SUBSTANCES AND DISEASE REGISTRY	93.161		UNIVERSITY OF TEXAS AT DALLAS
HEALTH PROGRAM FOR TOXIC SUBSTANCES AND DISEASE REGISTRY	93.161		EMORY UNIVERSITY
HEALTH PROGRAM FOR TOXIC SUBSTANCES AND DISEASE REGISTRY	93.161		
GRANTS TO STATES FOR LOAN REPAYMENT	93.165		

Pass-Through Entity "A478502"	Provided to Sub-Recipients	Federal	Program	Cluster	Cluster
	Sub-Recipients		-		
"A478502"		Expenditures	Total	Name	Total
		\$113,020	\$1,097,425	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$85,111	\$850,475	\$1,097,425	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		¢2 240 20E	Ć2 240 20E	N/A	خ.
		\$2,249,205	\$2,249,205	N/A	\$
		\$100,096	\$100,096	N/A	\$1
"SUB 20160C-ELSALANTY"		\$6,457	\$2,309,584	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"T825580"		\$54,936	\$2,309,584	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SUB00001966"		\$62,386	\$2,309,584	RESEARCH AND DEVELOPMENT	\$1,233,831,971
3020001300		ψ02)333	φ2,503,50.	NESE MONTHUS BEVELOT MENT	ψ1/200/001/371
"30842-UG"		\$103,361	\$2,309,584	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$305,771	\$2,082,444	\$2,309,584	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$26,606	\$26,606	N/A	\$
		\$151,434	\$151,434	N/A	\$
		\$696,673	\$696,673	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"SP000145414-02"		Ć12.650	¢c 050 000	DECEARCH AND DEVELOPMENT	ć1 222 021 0 7
"SP000145414-02"		\$12,650	\$6,069,800	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"63828383-35"		\$13,131	\$6,069,800	RESEARCH AND DEVELOPMENT	\$1,233,831,972
"S01096-01"		\$15.569	\$6,069,800	RESEARCH AND DEVELOPMENT	\$1,233,831,973
501050 01		, .,	. , ,		
		\$140,420	\$6,069,800	N/A	\$
	\$24,367	\$204,233	\$6,069,800	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$5,683,797	\$6,069,800	N/A	\$
"CON014714"		\$28,000	\$194,288	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$166,288	\$194,288	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"50074578050"		\$4,264	\$242,866	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"50068278050"		\$238,602	\$242,866	RESEARCH AND DEVELOPMENT	\$1,233,831,97
2000270000	\$1,396,925	\$1,803,402	\$1,803,402	N/A	\$
"HRSA18-0009"	<i>+-,,</i>	\$4,992	\$4,992	N/A	\$1
"118211663"		\$24,065	\$8,674,473	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"146440"		\$35,225	\$8,674,473	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"200197"		\$39,627	\$8,674,473	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"097536-17865"		\$41,774	\$8,674,473	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		4	4		4
EO-234122/PO#67525100"		\$54,723	\$8,674,473	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"G-64112-03"		\$60,278	\$8,674,473	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"2019-2552-01"		\$66,709	\$8,674,473	RESEARCH AND DEVELOPMENT	\$1,233,831,97.
EO-259345/PO#67608230"		\$96,161	\$8,674,473	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"4700229146"		\$117,680	\$8,674,473	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"145597"		\$118,710	\$8,674,473	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"4700266271"		\$129,335	\$8,674,473	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"139170"		\$178,326	\$8,674,473	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A385322"		\$178,326 \$183,299	\$8,674,473	RESEARCH AND DEVELOPMENT	\$1,233,831,97
7303322	\$1,375,147	\$7,528,561	\$8,674,473	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	71,575,177	\$85,000	\$85,000	N/A	Ç1,233,031,37.

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
HUMAN GENOME RESEARCH	93.172		BROAD INSTITUTE, INC.
HUMAN GENOME RESEARCH	93.172		VANDERBILT UNIVERSITY
HUMAN GENOME RESEARCH	93.172		
RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS	93.173		UNIVERSITY OF SOUTH FLORIDA
RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS	93.173		
NURSING WORKFORCE DIVERSITY	93.178		
NATIONAL RESEARCH SERVICE AWARD IN PRIMARY CARE MEDICINE	93.186		
GRADUATE PSYCHOLOGY EDUCATION	93.191		
GRADUATE PSYCHOLOGY EDUCATION	93.191		
CHILDHOOD LEAD POISONING PREVENTION PROJECTS, STATE AND LOCAL CHILDHOOD LEAD POISONING PREVENTION AND SURVEILLANCE OF BLOOD LEAD			
LEVELS IN CHILDREN	93.197		
TELEHEALTH PROGRAMS	93.211		JBS INTERNATIONAL
TELEHEALTH PROGRAMS	93.211		JBS INTERNATIONAL
RESEARCH AND TRAINING IN COMPLEMENTARY AND INTEGRATIVE			VIRGINIA COMMONWEALTH
HEALTH	93.213		UNIVERSITY
RESEARCH AND TRAINING IN COMPLEMENTARY AND INTEGRATIVE			
HEALTH	93.213		EMORY UNIVERSITY
RESEARCH AND TRAINING IN COMPLEMENTARY AND INTEGRATIVE HEALTH	93.213		
HEALTH CENTER PROGRAM (COMMUNITY HEALTH CENTERS, MIGRANT HEALTH CENTERS, HEALTH CARE FOR THE HOMELESS, AND PUBLIC HOUSING PRIMARY CARE)	93.224		
CENTERS, HEALTH CARE FOR THE HOMELESS, AND FOBER HOOSING FRIMARY CARE,	33.224		WILLIAM BEAUMONT HOSPITAL
RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES	93.226		RESEARCH INSTITUTE
RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES	93.226		112021 111011 111011
RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES	93.226		
TRAUMATIC BRAIN INJURY STATE DEMONSTRATION GRANT PROGRAM	93.234		
TITLE V STATE SEXUAL RISK AVOIDANCE EDUCATION (TITLE V STATE SRAE) PROGRAM	93.235		
GRANTS TO STATES TO SUPPORT ORAL HEALTH WORKFORCE ACTIVITIES	93.236		
STATE CAPACITY BUILDING	93.240		
STATE CAPACITY BUILDING	93.240		GEORGIA SOUTHERN UNIVERSITY RESEARCH AND SERVICE
STATE RURAL HOSPITAL FLEXIBILITY PROGRAM	93.241		FOUNDATION, INC.
STATE RURAL HOSPITAL FLEXIBILITY PROGRAM	93.241		, constitution, me
MENTAL HEALTH RESEARCH GRANTS	93.242		MIND RESEARCH NETWORK
MENTAL HEALTH RESEARCH GRANTS	93.242		KAISER PERMANENTE
			THE JOHNS HOPKINS UNIVERSITY
MENTAL HEALTH RESEARCH GRANTS	93.242		APPLIED PHYSICS LABORATORY, LLC
MENTAL HEALTH RESEARCH GRANTS	93.242		BOSTON UNIVERSITY
MENTAL HEALTH RESEARCH GRANTS	93.242		UNIVERSITY OF SOUTHERN CALIFORNIA
MENTAL HEALTH RESEARCH GRANTS MENTAL HEALTH RESEARCH GRANTS	93.242		EMORY UNIVERSITY
WENTAL REALTH RESEARCH GRANTS	33.242		ICAHN SCHOOL OF MEDICINE AT
MENTAL HEALTH RESEARCH GRANTS	93.242		MOUNT SINAI KAISER FOUNDATION RESEARCH
MENTAL HEALTH RESEARCH GRANTS	93.242		INSTITUTE
AAFAITAL LIFALTU DECESSOU COLUMN	02.245		BOYS TOWN NATIONAL RESEARCH
MENTAL HEALTH RESEARCH GRANTS	93.242		HOSPITAL
MENTAL HEALTH RESEARCH GRANTS	93.242		BOSTON COLLEGE UNIVERSITY OF SOUTHERN
MENTAL HEALTH RESEARCH GRANTS	93.242		CALIFORNIA
MENTAL HEALTH RESEARCH GRANTS MENTAL HEALTH RESEARCH GRANTS	93.242		KAISER PERMANENTE
			ICAHN SCHOOL OF MEDICINE AT
MENTAL HEALTH RESEARCH GRANTS	93.242		MOUNT SINAI
MENTAL HEALTH RESEARCH GRANTS	93.242		HARTFORD HOSPITAL
			KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE
MENTAL HEALTH RESEARCH GRANTS	93.242		FOUNDATION
MENTAL HEALTH RESEARCH GRANTS	93.242		CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER

Assigned By Funder	Total Amount		Federal	_	
Pass-Through	Provided to	Federal	Program	Cluster	Cluster
Entity "RBP* 6500215732"	Sub-Recipients	Expenditures \$919	Total \$296,380	Name RESEARCH AND DEVELOPMENT	Total \$1,233,831,971
"CON013076"		\$60,372	\$296,380	RESEARCH AND DEVELOPMENT	\$1,233,831,971
CON013070	\$176,380	\$235,089	\$296,380	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	7 = 1,0,000	+===,===	¥230,000		+ = , = = 0 , = = , = 1
"1219106800A"		\$28,538	\$2,379,734	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$447,703	\$2,351,196	\$2,379,734	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$408,691	\$408,691	N/A	\$1
		-\$26,563	-\$26,563	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		-\$1,496	\$655,474	N/A	\$
		\$656,970	\$655,474	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$478,522	\$478,522	N/A	\$(
"CON012156"		\$29,376	\$88,244	N/A	, \$(
"CON014484"		\$58,868	\$88,244	N/A	\$0
"PT112083-SC107082"		\$5,287	\$364,216	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CON014534"		\$24,673	\$364,216	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$25,815	\$334,256	\$364,216	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$98,507	\$5,399,651	\$5,399,651	HEALTH CENTER PROGRAM CLUSTER	\$5,399,65
UB NO WBH17001 AUGU"		-\$3,065	\$972,792	RESEARCH AND DEVELOPMENT	\$1,233,831,971
02 110 1121121001_11000	\$170,036	\$319,668	\$972,792	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	7=10,000	\$656,189	\$972,792	N/A	\$
		\$205,401	\$205,401	N/A	\$1
	\$1,013,967	\$2,229,484	\$2,229,484	N/A	\$1
	\$72,672	\$253,640	\$253,640	N/A	\$1
		-\$16,276	-\$16,276	N/A	\$(
"63828383-37"	\$6,000	\$226,276	\$950,076	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	7-7	\$723,800	\$950,076	N/A	\$1
"CON007941"		-\$6,312	\$8,178,043	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CON010730"		-\$4	\$8,178,043	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"#145278"		\$31	Ć0 170 042	RESEARCH AND DEVELOPMENT	\$1,233,831,971
#145278 "4R01MH077210-09"		\$572	\$8,178,043 \$8,178,043	RESEARCH AND DEVELOPMENT	\$1,233,831,971
4KU1WIHU77210-09		<i>\$372</i>	38,178,043	RESEARCH AND DEVELOPIVIENT	\$1,233,631,971
"CON014871"		\$3,617	\$8,178,043	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"A239444"		\$5,587	\$8,178,043	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SUB 0255-3355-4609"		\$6,876	\$8,178,043	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CON014642"		\$7,818	\$8,178,043	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CON014676"		\$8,343	\$8,178,043	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"51093013"		\$14,304	\$8,178,043	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$14,572	\$8,178,043	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CON013292"			70,170,043	NESEARCH AND DEVELOFIVILINI	J1.4JJ.OJ1.7/1
"CON013292" "CON014738"		\$15,386	\$8,178,043	RESEARCH AND DEVELOPMENT	
"CON014738"		\$15,386	\$8,178,043		\$1,233,831,97
"CON014738" "SUB # 0255-3351-4609"		\$15,386 \$15,550	\$8,178,043 \$8,178,043	RESEARCH AND DEVELOPMENT	\$1,233,831,971 \$1,233,831,971
		\$15,386	\$8,178,043		\$1,233,831,971 \$1,233,831,971
"CON014738" "SUB # 0255-3351-4609"		\$15,386 \$15,550	\$8,178,043 \$8,178,043	RESEARCH AND DEVELOPMENT	\$1,233,831,971 \$1,233,831,971 \$1,233,831,971 \$1,233,831,971

	Federal	Additional Award	Name of Funder
	CFDA	Identification	Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
MENTAL HEALTH RESEARCH GRANTS	93.242		ADVANCED BIOMEDICAL INFORMATICS GROUP, LLC
MENTAL HEALTH RESEARCH GRANTS MENTAL HEALTH RESEARCH GRANTS	93.242		HARTFORD HOSPITAL
WENTAL HEALTH RESEARCH GRANTS	33.242		MASSACHUSETTS INSTITUTE OF
MENTAL HEALTH RESEARCH GRANTS	93.242		TECHNOLOGY
MENTAL HEALTH RESEARCH GRANTS	93.242		JOHNS HOPKINS UNIVERSITY
MENTAL HEALTH RESEARCH GRANTS	93.242		YALE UNIVERSITY
MENTAL HEALTH RESEARCH GRANTS	93.242		UNIVERSITY OF NEBRASKA
MENTAL HEALTH RESEARCH GRANTS	93.242		
SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES PROJECTS OF			
REGIONAL AND NATIONAL SIGNIFICANCE	93.243		JOHNS HOPKINS UNIVERSITY
SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES PROJECTS OF REGIONAL AND			
NATIONAL SIGNIFICANCE	93.243		
SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES PROJECTS OF REGIONAL AND			
NATIONAL SIGNIFICANCE	93.243		
			GEORGIA SOUTHERN UNIVERSITY RESEARCH AND SERVICE
ADVANCED NURSING EDUCATION WORKFORCE GRANT PROGRAM	93.247		FOUNDATION, INC.
ADVANCED NURSING EDUCATION WORKFORCE GRANT PROGRAM	93.247		
EARLY HEARING DETECTION AND INTERVENTION	93.251		
			UNIVERSITY OF ALABAMA AT
OCCUPATIONAL SAFETY AND HEALTH PROGRAM	93.262		BIRMINGHAM
			GEORGIA SOUTHERN UNIVERSITY
			RESEARCH AND SERVICE
OCCUPATIONAL SAFETY AND HEALTH PROGRAM	93.262		FOUNDATION, INC.
OCCUPATIONAL SAFETY AND HEALTH PROGRAM	93.262		
NURSE FACULTY LOAN PROGRAM (NFLP)	93.264		
IMMUNIZATION COOPERATIVE AGREEMENTS	93.268	COVID 40	
COVID - 19 - IMMUNIZATION COOPERATIVE AGREEMENTS	93.268	COVID - 19	
IMMUNIZATION COOPERATIVE AGREEMENTS	93.268 93.270		
VIRAL HEPATITIS PREVENTION AND CONTROL ALCOHOL RESEARCH PROGRAMS	93.270		EMORY UNIVERSITY
ALCOHOL RESEARCH PROGRAMS ALCOHOL RESEARCH PROGRAMS	93.273		UNIVERSITY OF WASHINGTON
ALCOHOL RESEARCH PROGRAMS	93.273		UNIVERSITY OF WASHINGTON
ALCOHOL RESEARCH PROGRAMS	93.273		ARIZONA STATE UNIVERSITY
ALCOHOL RESEARCH FROM MISS	33.273		WEST VIRGINIA UNIVERSITY
ALCOHOL RESEARCH PROGRAMS	93.273		RESEARCH CORPORATION
ALCOHOL RESEARCH PROGRAMS	93.273		INLIGHTA BIOSCIENCES, LLC
ALCOHOL RESEARCH PROGRAMS	93.273		YALE UNIVERSITY
ALCOHOL RESEARCH PROGRAMS	93.273		INLIGHTA BIOSCIENCES, LLC
ALCOHOL RESEARCH PROGRAMS	93.273		,
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279		OHIO STATE UNIVERSITY
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279		UNIVERSITY OF CALIFORNIA
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279		EMORY UNIVERSITY
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279		UNIVERSITY OF CHICAGO
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279		BUTLER HOSPITAL
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279		NORTHWESTERN UNIVERSITY
			NATIONAL BUREAU OF ECONOMIC
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279		RESEARCH
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279		DUKE UNIVERSITY
			MASSACHUSETTS INSTITUTE OF
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279		TECHNOLOGY
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279		
CENTERS FOR DISEASE CONTROL AND PREVENTION INVESTIGATIONS AND			
TECHNICAL ASSISTANCE	93.283		
COVID - 19 - CENTERS FOR DISEASE CONTROL AND PREVENTION			
INVESTIGATIONS AND TECHNICAL ASSISTANCE	93.283	COVID - 19	TASKFORCE FOR GLOBAL HEALTH
INVESTIGATIONS AND TECHNICAL ASSISTANCE CENTERS FOR DISEASE CONTROL AND PREVENTION INVESTIGATIONS AND		COVID - 19	
INVESTIGATIONS AND TECHNICAL ASSISTANCE	93.283 93.283	COVID - 19	TASKFORCE FOR GLOBAL HEALTH TASKFORCE FOR GLOBAL HEALTH

Identifying Number Assigned By Funder	Total Amount		Federal		
Pass-Through	Provided to	Federal	Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
"CON013581"		\$43,083	Ć0 170 042	DESCRIPCITAND DEVELOPMENT	ć1 222 021 0 2
"CON013581		\$43,083 \$43,448	\$8,178,043 \$8,178,043	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,97 \$1,233,831,97
CON012172		743,440	\$0,170,043	RESEARCH AND DEVELOPMENT	\$1,233,031,97
"CON012622"		\$51,298	\$8,178,043	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON012125"		\$63,969	\$8,178,043	RESEARCH AND DEVELOPMENT	\$1,233,831,97
'GR110985CON80002757"		\$68,560	\$8,178,043	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON011721"		\$72,633	\$8,178,043	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$1,304,338	\$7,679,471	\$8,178,043	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"SUB NO. 2004173466"		\$1,018	\$4,684,018	N/A	Ç
		\$173,113	\$4,684,018	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$824,972	\$4,509,887	\$4,684,018	N/A	:
			, , , , , , ,	·	
"63828383-38"		\$250,776	\$1,200,501	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$949,725	\$1,200,501	N/A	ψ1,233,031,37
		\$223,022	\$223,022	N/A	:
"000514854-SC006-KEA"		\$201	\$188,160	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"63828383-39"		\$1,139	\$188,160	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		\$186,820	\$188,160	N/A	
		\$2,477,630	\$2,477,630	STUDENT FINANCIAL ASSISTANCE	\$2,071,661,2
		\$129,255	\$216,039,544	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		\$46,224,152	\$216,039,544	N/A	
		\$169,686,137	\$216,039,544	N/A	:
"A175538"		\$369,697	\$369,697	N/A RESEARCH AND DEVELOPMENT	61 222 821 0
"CON013167"		\$8 \$12,166	\$2,905,058 \$2,905,058	RESEARCH AND DEVELOPMENT	\$1,233,831,97 \$1,233,831,97
"CON013107		\$12,244	\$2,905,058	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON013249"		\$28,591	\$2,905,058	RESEARCH AND DEVELOPMENT	\$1,233,831,97
0011013243		720,331	72,303,030	NESE/MENTARD DEVELOTIVETY	ψ1,233,031,37
"18-588-UGRF"		\$59,335	\$2,905,058	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON010404"		\$89,131	\$2,905,058	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"GR104576"		\$225,725	\$2,905,058	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON013050"		\$263,495	\$2,905,058	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$221,687	\$2,214,363	\$2,905,058	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"CON013523"		\$2,049	\$4,320,632	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"11388SC"		\$6,678	\$4,320,632	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A371765"		\$16,842	\$4,320,632	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"AWD101172					
(SUB00000433)"		\$21,135	\$4,320,632	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"5001471ABRANTES"		\$22,712	\$4,320,632	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON014181"		\$35,051	\$4,320,632	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON010369"		\$44,046	\$4,320,632	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON012071"		\$44,298	\$4,320,632	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"S50142-PO 453106"		\$291,614	\$4,320,632	RESEARCH AND DEVELOPMENT	\$1,233,831,97
330172 1 0 433100	\$465,787	\$3,836,207	\$4,320,632	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		-\$146,460	-\$80,860	N/A	,
				·	
"3430"		\$29,812	-\$80,860	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"RISK"		\$35,788	-\$80,860	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON008047"		\$2,505	\$6,067,339	RESEARCH AND DEVELOPMENT	\$1,233,831,97

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS	Number	(Optional)	Entity
TO IMPROVE HUMAN HEALTH	93.286		EMORY UNIVERSITY
DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS	33.200		EMONT ONVENSITY
TO IMPROVE HUMAN HEALTH	93.286		EMORY UNIVERSITY
DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS			
TO IMPROVE HUMAN HEALTH	93.286		EMORY UNIVERSITY
DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS			
TO IMPROVE HUMAN HEALTH	93.286		EMORY UNIVERSITY
DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS			
TO IMPROVE HUMAN HEALTH	93.286		UNIVERSITY OF PITTSBURGH
DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS			
TO IMPROVE HUMAN HEALTH	93.286		EMORY UNIVERSITY
DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS			MASSACHUSETTS GENERAL
TO IMPROVE HUMAN HEALTH	93.286		HOSPITAL
DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS			
TO IMPROVE HUMAN HEALTH	93.286		STANFORD UNIVERSITY
DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS			
TO IMPROVE HUMAN HEALTH	93.286		MICHIGAN STATE UNIVERSITY
DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS			
TO IMPROVE HUMAN HEALTH	93.286		UNIVERSITY OF TEXAS AT AUSTIN
DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS	02.206		EN AGRICULATIVERSITY
TO IMPROVE HUMAN HEALTH	93.286		EMORY UNIVERSITY
DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS	02.206		EN AGRICULATIVERGETIV
TO IMPROVE HUMAN HEALTH	93.286		EMORY UNIVERSITY
DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS	93.286		FCC TECHNOLOGY LLC
TO IMPROVE HUMAN HEALTH DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS	93.200		FCS TECHNOLOGY, LLC CASE WESTERN RESERVE
TO IMPROVE HUMAN HEALTH	93.286		UNIVERSITY
TO INFROVE HOWAN HEALTH	93.280		KENNESAW STATE UNIVERSITY
DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS			RESEARCH AND SERVICE
TO IMPROVE HUMAN HEALTH	93.286		FOUNDATION
DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS	33.200		rechennen
TO IMPROVE HUMAN HEALTH	93.286		EMORY UNIVERSITY
DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO			
IMPROVE HUMAN HEALTH	93.286		
STATE PARTNERSHIP GRANT PROGRAM TO IMPROVE MINORITY HEALTH	93.296		
TEENAGE PREGNANCY PREVENTION PROGRAM	93.297		
SMALL RURAL HOSPITAL IMPROVEMENT GRANT PROGRAM	93.301		
PPHF 2018: OFFICE OF SMOKING AND HEALTH-NATIONAL STATE-BASED TOBACCO CONTROL PROGRAMS-FINANCED IN PART BY 2018 PREVENTION AND PUBLIC			
HEALTH FUNDS (PPHF)	93.305		
			PUERTO RICO SCIENCE,
MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH	93.307		TECHNOLOGY & RESEARCH TRUST
MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH	93.307		MOREHOUSE SCHOOL OF MEDICINE
MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH	93.307		UNIVERSITY OF UTAH
MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH	93.307		54400V
TRANS-NIH RESEARCH SUPPORT	93.310		EMORY UNIVERSITY
TRANS-NIH RESEARCH SUPPORT	93.310		VANDERBILT UNIVERSITY
TRANC MULDECEARCH CURRORT	02.240		LINUVERCITY OF CALIFORNIA TO THE
TRANS-NIH RESEARCH SUPPORT	93.310		UNIVERSITY OF CALIFORNIA, DAVIS
TRANS-NIH RESEARCH SUPPORT	93.310		JOHNS HOPKINS UNIVERSITY UNIVERSITY OF CALIFORNIA, SAN
TRANS-NIH RESEARCH SUPPORT	93.310		DIEGO
	00.5:-		UNIVERSITY OF TEXAS
TRANS-NIH RESEARCH SUPPORT	93.310		SOUTHWESTERN MEDICAL CENTER
TRANS-NIH RESEARCH SUPPORT	93.310		EMORY UNIVERSITY
TRANS-NIH RESEARCH SUPPORT	93.310		ALABAMA STATE UNIVERSITY
TRANS-NIH RESEARCH SUPPORT	93.310		UNIVERSITY OF CALIFORNIA, DAVIS

Identifying Number Assigned By Funder Pass-Through Entity	Total Amount Provided to Sub-Recipients	Federal Expenditures	Federal Program Total	Cluster Name	Cluster Total
"A369812"		\$3,298	\$6,067,339	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"A378942"		\$9,030	\$6,067,339	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"A454979"		\$10,614	\$6,067,339	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"A380053"		\$18,617	\$6,067,339	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"AWD00003057(135510-1)"		\$30,194	\$6,067,339	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"A378960"		\$41,608	\$6,067,339	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CON008247"		\$42,370	\$6,067,339	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"62440498-142337"		\$47,619	\$6,067,339	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"RC109911-GT"		\$56,809	\$6,067,339	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"UTA17-000428"		\$73,250	\$6,067,339	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"A454923"		\$75,363	\$6,067,339	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"A390401"		\$78,006	\$6,067,339	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"RFCST0001183401"		\$82,088	\$6,067,339	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CON013508"		\$98,064	\$6,067,339	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"9R15EB028609-02"		\$150,447	\$6,067,339	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"A416007"		\$1,290,435	\$6,067,339	RESEARCH AND DEVELOPMENT	\$1,233,831,971
	\$550,869	\$3,957,022 \$56,293	\$6,067,339 \$56,293	RESEARCH AND DEVELOPMENT N/A	\$1,233,831,971 \$0
		\$691,856	\$691,856	N/A	\$(
		\$676,164	\$676,164	N/A	\$0
		-\$7,580	-\$7,580	N/A	\$0
"2019-00161"		\$14,267	\$1,358,573	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SIMON U54S-341004-					
31001GT"		\$27,670	\$1,358,573	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"10044779-01"	\$358,062	\$105,649	\$1,358,573	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,971
"S699823"	\$358,002	\$1,210,987	\$1,358,573	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"VUMC73117"		-\$75,053 \$19,684	\$8,888,948 \$8,888,948	RESEARCH AND DEVELOPMENT	\$1,233,831,971 \$1,233,831,971
V GIVIC/311/		\$15,004°	<i>३०,००</i> ४,५४४	ALSLANCH AND DEVELOPIVIENT	71,233,031,9/1
"CON012545"		\$30,695	\$8,888,948	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CON014667"		\$36,640	\$8,888,948	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"122336447"		\$37,500	\$8,888,948	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"GMO_190802					
PO#000001820"		\$55,654	\$8,888,948	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"A373816"		\$102,573	\$8,888,948	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"UGM132769A"		\$110,542	\$8,888,948	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CON012721"		\$114,992	\$8,888,948	RESEARCH AND DEVELOPMENT	\$1,233,831,971

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
TRANS-NIH RESEARCH SUPPORT	93.310		UNIVERSITY OF CALIFORNIA, DAVIS
TRANS-NIH RESEARCH SUPPORT	93.310		NORTHEASTERN UNIVERSITY
TRANS-NIH RESEARCH SUPPORT	93.310		EMORY UNIVERSITY
TRANS-NIH RESEARCH SUPPORT	93.310		NORTHEASTERN UNIVERSITY
TRANS-NIH RESEARCH SUPPORT	93.310		
NIH OFFICE OF RESEARCH ON WOMEN'S HEALTH	93.313		
EARLY HEARING DETECTION AND INTERVENTION INFORMATION SYSTEM (EHDI-IS)			
SURVEILLANCE PROGRAM	93.314		
COVID - 19 - EMERGING INFECTIONS PROGRAMS	93.317	COVID - 19	
EMERGING INFECTIONS PROGRAMS	93.317		
DUTREACH PROGRAMS TO REDUCE THE PREVALENCE OF OBESITY IN HIGH RISK			
RURAL AREAS	93.319		
PIDEMIOLOGY AND LABORATORY CAPACITY FOR INFECTIOUS DISEASES (ELC)	93.323		
COVID - 19 - EPIDEMIOLOGY AND LABORATORY CAPACITY FOR INFECTIOUS			
DISEASES (ELC)	93.323	COVID - 19	
TATE HEALTH INSURANCE ASSISTANCE PROGRAM	93.324		
THE HEALTHY BRAIN INITIATIVE: TECHNICAL ASSISTANCE TO IMPLEMENT PUBLIC			
HEALTH ACTIONS RELATED TO COGNITIVE HEALTH, COGNITIVE IMPAIRMENT, AND			
CAREGIVING AT THE STATE AND LOCAL LEVELS	93.334		
BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM	93.336		
HEALTH PROFESSIONS STUDENT LOANS, INCLUDING PRIMARY CARE LOANS/LOANS	33.330		
FOR DISADVANTAGED STUDENTS	93.342		
ON DISABVANTAGED STODENTS	33.342		UNIVERSITY OF TEXAS MEDICAL
PUBLIC HEALTH SERVICE EVALUATION FUNDS	93.343		BRANCH (UTMB)
NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES	93.350		EMORY UNIVERSITY
NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES	93.350		EMORY UNIVERSITY
NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES	93.350		EMORY UNIVERSITY
			EMORY UNIVERSITY
NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES	93.350 93.350		EMORY UNIVERSITY EMORY UNIVERSITY
NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES	93.330		EWORY UNIVERSITY
NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES	93.350		EMORY UNIVERSITY
NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES	93.350		EMORY UNIVERSITY
NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES	93.350		EMORY UNIVERSITY
NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES	93.350		EMORY UNIVERSITY
NATIONAL CLIVIER FOR ADVANCING TRANSLATIONAL SCIENCES	33.330		EWICKT CIVIVENSITT
NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES	93.350		EMORY UNIVERSITY
			GEORGIA CLINICAL &
NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES	93.350		TRANSLATIONAL SCIENCE ALLIANC
NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES	93.350		EMORY UNIVERSITY
NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES	93.350		EMORY UNIVERSITY
RESEARCH INFRASTRUCTURE PROGRAMS	93.351		EMORY UNIVERSITY
RESEARCH INFRASTRUCTURE PROGRAMS	93.351		HAWA THERAPEUTICS, LLC
RESEARCH INFRASTRUCTURE PROGRAMS	93.351		HAWA HERAFLOHES, LEC
RESEARCH INFRASTRUCTURE PROGRAMS	93.351		
	93.353		UNIVERSITY OF ALABAMA
21ST CENTURY CURES ACT - BEAU BIDEN CANCER MOONSHOT	93.333		UNIVERSITY OF ALABAMIA
PUBLIC HEALTH EMERGENCY RESPONSE: COOPERATIVE AGREEMENT FOR	02.254		
EMERGENCY RESPONSE: PUBLIC HEALTH CRISIS RESPONSE	93.354		
COVID - 19 - PUBLIC HEALTH EMERGENCY RESPONSE: COOPERATIVE AGREEMENT FOR EMERGENCY RESPONSE: PUBLIC HEALTH CRISIS RESPONSE	93.354	COVID - 19	
COVID - 19 - NURSE EDUCATION, PRACTICE QUALITY AND RETENTION GRANTS	93.359	COVID - 19	
BIOMEDICAL ADVANCED RESEARCH AND DEVELOPMENT AUTHORITY			
(BARDA), BIODEFENSE MEDICAL COUNTERMEASURE DEVELOPMENT	93.360		LOCKHEED MARTIN CORPORATION
BIOMEDICAL ADVANCED RESEARCH AND DEVELOPMENT AUTHORITY			
(BARDA), BIODEFENSE MEDICAL COUNTERMEASURE DEVELOPMENT	93.360		EMORY UNIVERSITY
NURSING RESEARCH	93.361		QUA, INC.
NURSING RESEARCH	93.361		
			UNIVERSITY OF ALABAMA AT
NURSING RESEARCH	93.361		BIRMINGHAM
	93.364		

Identifying Number Assigned By Funder	Total Amount		Federal		
Pass-Through	Provided to	Federal	Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
"CON014008"		\$157,933	\$8,888,948	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"50066978052"		\$195,868	\$8,888,948	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"A463275"		\$442,530	\$8,888,948	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"50071778050"					
30071778030	¢2.027.424	\$595,655	\$8,888,948	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$2,027,434	\$7,063,735 -\$2,306	\$8,888,948 -\$2,306	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,97 \$1,233,831,97
		-32,300	-32,300	RESEARCH AND DEVELOPMENT	\$1,233,631,57
		\$163,854	\$163,854	N/A	Ç
		\$1,326,844	\$5,547,117	N/A	\$
		\$4,220,273	\$5,547,117	N/A	Ç
		\$698,331	\$698,331	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$3,183,304	\$263,142,487	N/A	Ş
		\$3,103,30 4	<i>\$203,</i> 142,407	N/A	~
		\$259,959,183	\$263,142,487	N/A	\$
	\$549,010	\$1,383,505	\$1,383,505	N/A	ç
		\$33,789	\$33,789	N/A	\$
		\$245,120	\$245,120	N/A	\$
		\$65,950	\$65,950	STUDENT FINANCIAL ASSISTANCE	\$2,071,661,24
"CON014015"		\$68,698	\$68,698	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A229809"		-\$501	\$1,704,874	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A229968"		-\$1	\$1,704,874	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A463934"		\$7,500		RESEARCH AND DEVELOPMENT	
			\$1,704,874		\$1,233,831,97
"A402388" "A389421"		\$16,652	\$1,704,874	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,97
A303421		\$20,223	\$1,704,874	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A007319 (PREV.T895408)"		\$22,682	\$1,704,874	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A430206"		\$22,687	\$1,704,874	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A391612"		\$40,739	\$1,704,874	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A425123"		\$41,315	\$1,704,874	RESEARCH AND DEVELOPMENT	\$1,233,831,97
'A404167/A241975/A155067 "		\$43,603	\$1,704,874	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"UL1TR002378"		\$51,371	\$1,704,874	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A355461"		\$402,895	\$1,704,874	RESEARCH AND DEVELOPMENT	\$1,233,831,97.
"057474-01"		\$1,035,709	\$1,704,874	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"T620910"		\$47,887	\$2,209,607	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"1R41OD030519-01"		\$51,164	\$2,209,607	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$74,330	\$2,209,607	N/A	\$
	\$195,149	\$2,036,226	\$2,209,607	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"516421001"	,,	\$31,681	\$31,681	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$182,926	\$10,512,076	N/A	\$
		\$10,329,150	\$10,512,076	N/A	Ş
		\$903,667	\$903,667	N/A	\$
"LM0065920"		-\$2,450	\$39,818	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"4240677"		. ,		DECEMBELL AND DELIES OF THE	, , , ,
"A240077"		\$42,268	\$39,818	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"146692"		\$32,128	\$263,185	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$81,151	\$263,185	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"SUB 000521619-SC005"		\$149,906	\$263,185	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$711,940	\$711,940	STUDENT FINANCIAL ASSISTANCE	\$2,071,661,24

	Federal	Additional Award	Name of Funder
- / /- /- /	CFDA	Identification	Pass-Through
Federal Awarding Agency/Program Title SICKLE CELL TREATMENT DEMONSTRATION PROGRAM	93.365	(Optional)	Entity
TATE ACTIONS TO IMPROVE ORAL HEALTH OUTCOMES AND PARTNER ACTIONS TO	93.303		ATRIUM HEALTH
MPROVE ORAL HEALTH OUTCOMES	93.366		
	33.300		
LEXIBLE FUNDING MODEL - INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE			
OR STATE MANUFACTURED FOOD REGULATORY PROGRAMS	93.367		
CL INDEPENDENT LIVING STATE GRANTS	93.369		
NATIONAL AND STATE TOBACCO CONTROL PROGRAM	93.387		UNIVERSITY OF PENNSYLVANIA
ATIONAL AND STATE TOBACCO CONTROL PROGRAM	93.387		
CANCER CAUSE AND PREVENTION RESEARCH	93.393		UNIVERSITY OF TOLEDO
CANCER CAUSE AND PREVENTION RESEARCH	93.393		IONIC PHARMACEUTICALS
CANCER CAUSE AND PREVENTION RESEARCH	93.393		NORTHWESTERN UNIVERSITY
CANCER CAUSE AND PREVENTION RESEARCH	93.393		UNIVERSITY OF UTAH
CANCER CALISE AND RESURNITION RESEARCH	02 202		FRED HUTCHINSON CANCER
CANCER CAUSE AND PREVENTION RESEARCH	93.393		RESEARCH CENTER
CANCER CAUSE AND PREVENTION RESEARCH	93.393		IONIC PHARMACEUTICALS
CHIVEL CHOSE THE PROPERTY RESEMBLY	33.333		LAWRENCE BERKELEY NATIONAL
CANCER CAUSE AND PREVENTION RESEARCH	93.393		LABORATORY
CANCER CAUSE AND PREVENTION RESEARCH	93.393		UNIVERSITY OF UTAH
CANCER CAUSE AND PREVENTION RESEARCH	93.393		TULANE UNIVERSITY
CANCER CAUSE AND PREVENTION RESEARCH	93.393		UNIVERSITY OF CONNECTICUT
ANCER CAUSE AND PREVENTION RESEARCH	93.393		
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394		INLIGHTA BIOSCIENCES, LLC
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394		UNIVERSITY OF OKLAHOMA
			FLORIDA INTERNATIONAL
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394		UNIVERSITY
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394		NEW YORK UNIVERSITY
ANCER DETECTION AND DIAGNOSIS RESEARCH	93.394		
CANCER TREATMENT RESEARCH	93.395		EMORY UNIVERSITY
			CHILDREN'S HOSPITAL OF
CANCER TREATMENT RESEARCH	93.395		PHILADELPHIA
CANCER TREATMENT RESEARCH	93.395		EMORY UNIVERSITY
CANCER TREATMENT RESEARCH	93.395		UNIVERSITY OF MICHIGAN
CANCED TREATMENT RECEARCH	02.205		DOCTON LINUVERCITY
CANCER TREATMENT RESEARCH	93.395		BOSTON UNIVERSITY
CANCER TREATMENT RESEARCH	93.395		WILDFLOWER BIOPHARMA, INC.
CANCER TREATMENT RESEARCH	93.395		PRODA BIOTECH, LLC
CHICEN THE THE HESE INCH	33.333		UNIVERSITY OF NORTH CAROLIN.
CANCER TREATMENT RESEARCH	93.395		AT CHAPEL HILL
ANCER TREATMENT RESEARCH	93.395		
CANCER BIOLOGY RESEARCH	93.396		NORTHWESTERN UNIVERSITY
CANCER BIOLOGY RESEARCH	93.396		BAYLOR COLLEGE OF MEDICINE
CANCER BIOLOGY RESEARCH	93.396		UNIVERSITY OF SOUTH FLORIDA
CANCER BIOLOGY RESEARCH	93.396		UNIVERSITY OF FLORIDA
			UNIVERSITY OF ALABAMA AT
CANCER BIOLOGY RESEARCH	93.396		BIRMINGHAM
CANCER BIOLOGY RESEARCH	93.396		UNIVERSITY OF CONNECTICUT
ANCER BIOLOGY RESEARCH	93.396		
CANCER CENTERS SUPPORT GRANTS	93.397		EMORY UNIVERSITY
ANCER RESEARCH MANPOWER	93.398		
ANCER CONTROL	93.399		
STRENGTHENING PUBLIC HEALTH SYSTEMS AND SERVICES THROUGH			
NATIONAL PARTNERSHIPS TO IMPROVE AND PROTECT THE NATIONS			ASSOCIATION OF MATERNAL &
HEALTH	93.421		CHILD HEALTH PROGRAMS
STRENGTHENING PUBLIC HEALTH SYSTEMS AND SERVICES THROUGH			
NATIONAL PARTNERSHIPS TO IMPROVE AND PROTECT THE NATIONS			
HEALTH	93.421		SMITHSONIAN INSTITUTION
STRENGTHENING PUBLIC HEALTH SYSTEMS AND SERVICES THROUGH			
NATIONAL PARTNERSHIPS TO IMPROVE AND PROTECT THE NATIONS			NORTH CAROLINA STATE
HEALTH	93.421		UNIVERSITY

Identifying Number Assigned By Funder	Total Amount		Federal		
Pass-Through Entity	Provided to Sub-Recipients	Federal Expenditures	Program Total	Cluster Name	Cluster Total
"3000301054(A17-0142"	Sub-Kecipients	\$56,085	\$56,085	N/A	Total
,					
		\$291,899	\$291,899	N/A	
		\$504,172	\$504,172	N/A	
		\$524,775	\$524,775	N/A	
"1RO1HL147256-01"		\$330,014	\$1,384,082	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		\$1,054,068	\$1,384,082	N/A	
"CON011331"		-\$527	\$2,552,771	RESEARCH AND DEVELOPMENT	\$1,233,831,
SUBAWARD NO. 34686-1"		\$7,246	\$2,552,771	RESEARCH AND DEVELOPMENT	\$1,233,831,
"SUB# 60054149AURI"		\$8,893	\$2,552,771	RESEARCH AND DEVELOPMENT	\$1,233,831,
"10045740-01"		\$13,051	\$2,552,771	RESEARCH AND DEVELOPMENT	\$1,233,831,
"1023555"		\$19,987	\$2,552,771	RESEARCH AND DEVELOPMENT	\$1,233,831,9
SUBAWARD NO. 36091-1"		\$27,406	\$2,552,771	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON013294"		\$84,975	\$2,552,771	RESEARCH AND DEVELOPMENT	\$1,233,831,
"10044693-02"		\$88,311	\$2,552,771	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON013105"		\$108,541	\$2,552,771	RESEARCH AND DEVELOPMENT	\$1,233,831,
"324639"		\$158,786	\$2,552,771	RESEARCH AND DEVELOPMENT	\$1,233,831,
	\$116,162	\$2,036,102	\$2,552,771	RESEARCH AND DEVELOPMENT	\$1,233,831
"CON008621"		\$1,275	\$1,419,263	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON012296"		\$56,019	\$1,419,263	RESEARCH AND DEVELOPMENT	\$1,233,831,
"371"		\$120,726	\$1,419,263	RESEARCH AND DEVELOPMENT	\$1,233,831,
"19-A1-00-1002648"		\$243,839	\$1,419,263	RESEARCH AND DEVELOPMENT	\$1,233,831,
"T692799"	\$233,469	\$997,404 <i>\$389</i>	\$1,419,263 <i>\$3,539,369</i>	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831 \$1,233,831,
		,			
'NIH COG CHAIR GRANT"		\$529	\$3,539,369	RESEARCH AND DEVELOPMENT	\$1,233,831,
"A392350"		\$24,854	\$3,539,369	RESEARCH AND DEVELOPMENT	\$1,233,831,
"SUBK00008227"		\$25,927	\$3,539,369	RESEARCH AND DEVELOPMENT	\$1,233,831,
UBAWARD# 4500002673"		\$81,600	\$3,539,369	RESEARCH AND DEVELOPMENT	\$1,233,831,
"SUBAWARD 10001"		\$86,661	\$3,539,369	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON010395"		\$126,684	\$3,539,369	RESEARCH AND DEVELOPMENT	\$1,233,831,
"5118110"		\$226,544	\$3,539,369	RESEARCH AND DEVELOPMENT	\$1,233,831,
	\$288,137	\$2,966,181	\$3,539,369	RESEARCH AND DEVELOPMENT	\$1,233,831
"CON011047"		\$7,946	\$6,876,505	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON013601"		\$20,993	\$6,876,505	RESEARCH AND DEVELOPMENT	\$1,233,831,
"6143119600B" 'SUB#: UFDSP00011398"		\$40,513 \$41,979	\$6,876,505 \$6,876,505	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831, \$1,233,831,
30 <i>6#. 0FD</i> 3P00011398		\$41,979	\$0,870,3U3	RESEARCH AND DEVELOPMENT	\$1,233,031 _,
"000519805SC001"		\$42,664	\$6,876,505	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON011501"		\$147,886	<i>\$6,876,505</i>	RESEARCH AND DEVELOPMENT	\$1,233,831,
	\$1,286,777	\$6,574,524	\$6,876,505	RESEARCH AND DEVELOPMENT	\$1,233,831
"A396195"		\$83,030	\$83,030	RESEARCH AND DEVELOPMENT	\$1,233,831,
	\$64,581	\$393,595 \$1,169,947	\$393,595 \$1,169,947	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831 \$1,233,831
		, , , , , , , , , , , , , , , , , , , ,			, , , , , , , ,
"CON015164"		\$5,963	\$468,445	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON014617"		\$18,613	\$468,445	RESEARCH AND DEVELOPMENT	\$1,233,831,
'5 NU380T000297-02-00"		\$55,407	\$468,445	RESEARCH AND DEVELOPMENT	\$1,233,831,

Federal Awarding Agency/Program Title	Federal CFDA Number	Additional Award Identification (Optional)	Name of Funder Pass-Through Entity
reaeral Awarung Agency/ Program Trae	Number	(Ориони)	Entity
STRENGTHENING PUBLIC HEALTH SYSTEMS AND SERVICES THROUGH NATIONAL			
PARTNERSHIPS TO IMPROVE AND PROTECT THE NATIONS HEALTH	93.421		
STRENGTHENING PUBLIC HEALTH SYSTEMS AND SERVICES THROUGH			
NATIONAL PARTNERSHIPS TO IMPROVE AND PROTECT THE NATIONS	02.424		CDC FOUNDATION
HEALTH NON-ACA/PPHFBUILDING CAPACITY OF THE PUBLIC HEALTH SYSTEM TO	93.421		CDC FOUNDATION
IMPROVE POPULATION HEALTH THROUGH NATIONAL NONPROFIT ORGANIZATIONS	93.424		ASSOCIATION OF UNIVERSITY CENTERS ON DISABILITIES
NON-ACA/PPHFBUILDING CAPACITY OF THE PUBLIC HEALTH SYSTEM TO IMPROVE			
POPULATION HEALTH THROUGH NATIONAL NONPROFIT ORGANIZATIONS	93.424		
NON-ACA/PPHFBUILDING CAPACITY OF THE PUBLIC HEALTH SYSTEM TO IMPROVE POPULATION HEALTH THROUGH NATIONAL NONPROFIT			ASSOCIATION OF MATERNAL &
ORGANIZATIONS	93.424		CHILD HEALTH PROGRAMS
NON-ACA/PPHFBUILDING CAPACITY OF THE PUBLIC HEALTH SYSTEM TO	33.424		CHIED HEALTH NOONAWS
IMPROVE POPULATION HEALTH THROUGH NATIONAL NONPROFIT			
ORGANIZATIONS	93.424		CDC FOUNDATION
NON-ACA/PPHFBUILDING CAPACITY OF THE PUBLIC HEALTH SYSTEM TO			
IMPROVE POPULATION HEALTH THROUGH NATIONAL NONPROFIT			ASSOCIATION OF UNIVERSITY
ORGANIZATIONS	93.424		CENTERS ON DISABILITIES
MPROVING THE HEALTH OF AMERICANS THROUGH PREVENTION AND			
MANAGEMENT OF DIABETES AND HEART DISEASE AND STROKE	93.426		
ACL NATIONAL INSTITUTE ON DISABILITY, INDEPENDENT LIVING, AND			
REHABILITATION RESEARCH	93.433		UNIVERSITY OF PITTSBURGH
ACL NATIONAL INSTITUTE ON DISABILITY, INDEPENDENT LIVING, AND REHABILITATION RESEARCH	93.433		
EVERY STUDENT SUCCEEDS ACT/PRESCHOOL DEVELOPMENT GRANTS	93.434		
NNOVATIVE STATE AND LOCAL PUBLIC HEALTH STRATEGIES TO PREVENT AND	33.434		
MANAGE DIABETES AND HEART DISEASE AND STROKE-	93.435		
CDC UNDERGRADUATE PUBLIC HEALTH SCHOLARS PROGRAM (CUPS): A PUBLIC HEALTH EXPERIENCE TO EXPOSE UNDERGRADUATES INTERESTED IN MINORITY HEALTH TO PUBLIC HEALTH AND THE PUBLIC HEALTH PROFESSIONS	93.456		
ACL ASSISTIVE TECHNOLOGY	93.464		
COVID - 19 - PROVIDER RELIEF FUND	93.498	COVID - 19	
AFFORDABLE CARE ACT (ACA) MATERNAL, INFANT, AND EARLY CHILDHOOD HOME			
VISITING PROGRAM	93.505		
AFFORDABLE CARE ACT (ACA) MATERNAL, INFANT, AND EARLY			MIDDLE GEORGIA REGIONAL
CHILDHOOD HOME VISITING PROGRAM	93.505		COMMISSION
PUBLIC HEALTH TRAINING CENTERS PROGRAM	93.516		EMORY UNIVERSITY
THE AFFORDABLE CARE ACT: BUILDING EPIDEMIOLOGY, LABORATORY, AND HEALTH NFORMATION SYSTEMS CAPACITY IN THE EPIDEMIOLOGY AND LABORATORY CAPACITY FOR INFECTIOUS DISEASE (ELC) AND EMERGING INFECTIONS PROGRAM			
EIP) COOPERATIVE AGREEMENTS; PPHF	93.521		
THE AFFORDABLE CARE ACT: HUMAN IMMUNODEFICIENCY VIRUS (HIV)	13.321		
PREVENTION AND PUBLIC HEALTH FUND ACTIVITIES	93.523		
MARYLEE ALLEN PROMOTING SAFE AND STABLE FAMILIES PROGRAM	93.556		
TEMPORARY ASSISTANCE FOR NEEDY FAMILIES	93.558		
CHILD SUPPORT ENFORCEMENT	93.563		
CHILD SUPPORT ENFORCEMENT RESEARCH	93.564		
COVID - 19 - REFUGEE AND ENTRANT ASSISTANCE STATE/REPLACEMENT DESIGNEE			
ADMINISTERED PROGRAMS	93.566	COVID - 19	
REFUGEE AND ENTRANT ASSISTANCE STATE/REPLACEMENT DESIGNEE	02 566		
ADMINISTERED PROGRAMS COVID - 19 - LOW-INCOME HOME ENERGY ASSISTANCE	93.566	COVID - 10	
LOVID - 19 - LOW-INCOME HOME ENERGY ASSISTANCE LOW-INCOME HOME ENERGY ASSISTANCE	93.568 93.568	COVID - 19	
COMMUNITY SERVICES BLOCK GRANT	93.569		
COVID - 19 - COMMUNITY SERVICES BLOCK GRANT	93.569	COVID - 19	
CHILD CARE AND DEVELOPMENT BLOCK GRANT	93.575		
COVID - 19 - CHILD CARE AND DEVELOPMENT BLOCK GRANT	93.575	COVID - 19	
CHILD CARE AND DEVELOPMENT BLOCK GRANT	93.575		
U.S. REPATRIATION	93.579		

Cluster	Cluster	Federal Program	Federal	Total Amount Provided to	Identifying Number Assigned By Funder Pass-Through
Total	Name	Total	Expenditures	Sub-Recipients	Entity
			•	,	•
*	21/2	Ć460 445	¢420.024		
\$0	N/A	\$468,445	\$130,024		
\$0	N/A	\$468,445	\$258,438		"41110"
\$0	N/A	\$294,226	-\$2,355		"CON009432"
\$0	N/A	\$294,226	\$1,500		
Ç	N/A	3234,220	\$1,500		
\$0	N/A	\$294,226	\$46,077		"CON014077"
\$1,233,831,971	RESEARCH AND DEVELOPMENT	\$294,226	\$111,747		"CON011558"
\$1,233,831,971	RESEARCH AND DEVELOPMENT	\$294,226	\$137,257		"CON013661"
ψ1)200)001)371	N252/ 1161/ 1112 22 12 261 11/211	<i>\$254,220</i>	<i>\(\psi_101,1201 \)</i>		00/1010001
\$0	N/A	\$2,041,322	\$2,041,322		
\$1,233,831,971	RESEARCH AND DEVELOPMENT	\$2,940,197	\$81,356		0058440 (130293-1)"
<i>\$1,233,031,371</i>	NESE/MENTING DEVELOT WENT	<i>\$2,540,157</i>	<i>\$01,030</i>		0030440 (130233 1)
\$1,233,831,971	RESEARCH AND DEVELOPMENT	\$2,940,197	\$2,858,841	\$383,206	
\$0	N/A	\$2,447,280	\$2,447,280	\$1,358	
\$0	N/A	\$572,139	\$572,139		
	· ·				
\$1,233,831,971	RESEARCH AND DEVELOPMENT	\$775,029	\$775,029	\$50,955	
\$1,233,831,971	RESEARCH AND DEVELOPMENT	\$240,861	\$240,861	\$119,338	
\$0	N/A	\$131	\$131		
\$0	N/A	-\$11,376	-\$13,026		
Ç.	N/A	-311,370	\$15,020		
\$1,233,831,971	RESEARCH AND DEVELOPMENT	-\$11,376	\$1,650		"MIHOPE II"
\$1,233,831,971	RESEARCH AND DEVELOPMENT	\$49,228	\$49,228		"T983760"
\$(N/A	-\$29,363	-\$29,363		
\$0	N/A	\$892,287	\$892,287		
\$(N/A	\$13,248,908	\$13,248,908		
\$0	N/A	\$280,964,924	\$280,964,924	\$46,908,809	
\$0	N/A	\$88,103,957	\$88,103,957	\$10,970,338	
\$0	N/A	\$1,009,216	\$1,009,216	\$967,594	
\$0	N/A	\$5,107,397	\$384,128	\$384,128	
Ţ.	14/1	- 	Ç307,120	, JOT, 120	
\$0	N/A	\$5,107,397	\$4,723,269	\$2,652,690	
\$0	N/A	\$121,481,626	\$48,695,774	\$41,193,790	
\$0	N/A	\$121,481,626	\$72,785,852	\$71,092,829	
\$0	N/A	\$34,413,555	\$16,245,411	\$15,786,606	
\$0	N/A	\$34,413,555	\$18,168,144	\$17,961,856	
4. 2	RESEARCH AND DEVELOPMENT	\$373,459,478	\$36,798		
\$1,233,831,971		40== :=:	64-0 04		
\$1,233,831,971 \$486,943,785 \$486,943,785	CCDF CLUSTER CCDF CLUSTER	\$373,459,478 \$373,459,478	\$173,048,612 \$200,374,068	\$14,041,396 \$15,426,848	

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
STATE COURT IMPROVEMENT PROGRAM	93.586		
COMMUNITY-BASED CHILD ABUSE PREVENTION GRANTS	93.590		
FAMILY VIOLENCE PREVENTION AND SERVICES/DISCRETIONARY	93.592		AMERICAN LIBRARY ASSOCIATION
CHILD CARE MANDATORY AND MATCHING FUNDS OF THE CHILD CARE AND	93.392		AMERICAN LIBRART ASSOCIATION
DEVELOPMENT FUND	93.596		
GRANTS TO STATES FOR ACCESS AND VISITATION PROGRAMS	93.597		
CHAFEE EDUCATION AND TRAINING VOUCHERS PROGRAM (ETV)	02.500		KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE
CHAFEE EDUCATION AND TRAINING VOUCHERS PROGRAM (ETV) CHAFEE EDUCATION AND TRAINING VOUCHERS PROGRAM (ETV)	<i>93.599</i> 93.599		FOUNDATION
CHAILE EDUCATION AND MAINING VOUCHERS PROGRAM (ETV)	33.333		YMCA EARLY CHILD DEVELOPMENT
HEAD START	93.600		CO, LLC
			YMCA EARLY CHILD DEVELOPMENT
HEAD START	93.600		CO, LLC
HEAD START	93.600		,
ADOPTION AND LEGAL GUARDIANSHIP INCENTIVE PAYMENTS	93.603		
DEVELOPMENTAL DISABILITIES BASIC SUPPORT AND ADVOCACY GRANTS	93.630		GEORGIA SOUTHERN UNIVERSITY RESEARCH AND SERVICE FOUNDATION, INC.
DEVELOPMENTAL DISABILITIES BASIC SUPPORT AND ADVOCACY GRANTS DEVELOPMENTAL DISABILITIES BASIC SUPPORT AND ADVOCACY GRANTS	93.630		FOUNDATION, INC.
DEVELOPMENTAL DISABILITIES BASIC SUPPORT AND ADVOCACT GRAINTS DEVELOPMENTAL DISABILITIES PROJECTS OF NATIONAL SIGNIFICANCE	93.631		
COVID - 19 - UNIVERSITY CENTERS FOR EXCELLENCE IN DEVELOPMENTAL	93.031		
DISABILITIES EDUCATION, RESEARCH, AND SERVICE	93.632	COVID - 19	
UNIVERSITY CENTERS FOR EXCELLENCE IN DEVELOPMENTAL DISABILITIES	30.032	00110 13	
EDUCATION, RESEARCH, AND SERVICE	93.632		
UNIVERSITY CENTERS FOR EXCELLENCE IN DEVELOPMENTAL DISABILITIES	30.032		
EDUCATION, RESEARCH, AND SERVICE	93.632		
CHILDREN'S JUSTICE GRANTS TO STATES	93.643		
COVID - 19 - STEPHANIE TUBBS JONES CHILD WELFARE SERVICES PROGRAM	93.645	COVID - 19	
STEPHANIE TUBBS JONES CHILD WELFARE SERVICES PROGRAM	93.645		
SOCIAL SERVICES RESEARCH AND DEMONSTRATION	93.647		
CHILD WELFARE RESEARCH TRAINING OR DEMONSTRATION	93.648		STATE UNIVERSITY OF NEW YORK THE RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW
CHILD WELFARE RESEARCH TRAINING OR DEMONSTRATION	93.648		YORK
CHILD WELFARE RESEARCH TRAINING OR DEMONSTRATION	93.648		THE RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW YORK
CHILD WELFARE RESEARCH TRAINING OR DEMONSTRATION	93.648		STATE UNIVERSITY OF NEW YORK
CHILD WELFARE RESEARCH TRAINING OR DEMONSTRATION	93.648		STATE UNIVERSITY OF NEW YORK KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE
FOSTER CARE TITLE IV-E	93.658		FOUNDATION
FOSTER CARE TITLE IV-E	93.658		
ADOPTION ASSISTANCE	93.659		
EXTRAMURAL RESEARCH FACILITIES RESTORATION PROGRAM: HURRICANES HARVEY, MARIA, AND IRMA CONSTRUCTION	93.662		
EXTRAMURAL RESEARCH RESTORATION PROGRAM: HURRICANES HARVEY, MARIA, AND IRMA NON-CONSTRUCTION	93.663		
COVID - 19 - EMERGENCY GRANTS TO ADDRESS MENTAL AND SUBSTANCE USE			
DISORDERS DURING COVID-19	93.665	COVID - 19	
SOCIAL SERVICES BLOCK GRANT	93.667		
CHILD ABUSE AND NEGLECT STATE GRANTS	93.669		
COVID - 19 - FAMILY VIOLENCE PREVENTION AND SERVICES/DOMESTIC VIOLENCE SHELTER AND SUPPORTIVE SERVICES	93.671	COVID - 19	
JOHN H. CHAFEE FOSTER CARE PROGRAM FOR SUCCESSFUL TRANSITION TO ADULTHOOD	93.674		

Identifying Number Assigned By Funder Pass-Through	Total Amount Provided to	Federal	Federal Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
		\$607,425	\$607,425	N/A	9
	\$15,000	\$915,522	\$915,522	N/A	<u> </u>
"1000000015_SFY20"		\$13,751	\$13,751	N/A	\$
		\$113,521,105	Ć112 F21 10F	CCDE CLUSTER	¢496 042 76
	\$328,428	\$113,521,105	\$113,521,105 \$464,551	CCDF CLUSTER N/A	\$486,943,78 \$
	\$320,420	\$404,331	\$ 404 ,331	NA	,
"47000400000088541"		\$15,526	\$863,103	N/A	\$
	\$200,469	\$847,577	\$863,103	N/A	
"1176 54"		\$9,596	\$13,942,743	HEAD START CLUSTER	\$13,942,74
_					
"1181_54"		\$47,823	\$13,942,743	HEAD START CLUSTER	\$13,942,74
	\$6,484,931	\$13,885,324	\$13,942,743	HEAD START CLUSTER	\$13,942,74
		\$454,564	\$454,564	N/A	,
"63828383-31"		\$7,000	\$2,454,278	N/A	\$
		\$2,447,278	\$2,454,278	N/A	
	\$585	\$400,619	\$400,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$14,886	\$1,080,499	N/A	Ş
		\$481,492	\$1,080,499	N/A	
		, , ,	, , , , , , , ,	,	
	\$9,285	\$584,121	\$1,080,499	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$302,891	\$501,617	\$501,617	N/A	:
		\$1,729,109	\$8,745,422	N/A	
		\$7,016,313 \$230,179	\$8,745,422 \$230,179	N/A RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$230,179	3230,173	RESEARCH AND DEVELOPIVIENT	\$1,255,051,5
"CON011838"		\$22,699	\$448,351	N/A	\$
"982905"		\$30,235	\$448,351	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"986154"		\$94,535	\$448,351	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON014209"		\$150,000	\$448,351	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		<i>\$130,000</i>	, ,	NESE/MENTINE BEVELOT MENT	
"1489268"		\$150,882	\$448,351	N/A	\$
		4			_
42700-040-000006230"		\$123,448	\$96,585,647	N/A	\$
		\$96,462,199 \$64,836,203	\$96,585,647 \$64,836,203	N/A N/A	
	\$87,902	\$658,154	\$658,154	N/A	
	, 507,502				
		\$111,958	\$111,958	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$1,260,305	\$1,260,305	N/A	
	\$30,639,922	\$36,689,559	\$36,689,559	N/A	
		\$751,260	\$751,260	N/A	:
	\$3,325,469	\$3,512,691	\$3,512,691	N/A	;
		\$3,482,491	\$3,482,491	N/A	Ç

	Federal	Additional Award	Name of Funder
Federal Awarding Agency/Program Title	CFDA Number	Identification (Optional)	Pass-Through Entity
· · · · · · · · · · · · · · · · · · ·		(GEORGIA SOUTHERN UNIVERSITY RESEARCH AND SERVICE
MENTAL AND BEHAVIORAL HEALTH EDUCATION AND TRAINING GRANTS	93.732		FOUNDATION, INC.
MENTAL AND BEHAVIORAL HEALTH EDUCATION AND TRAINING GRANTS	93.732		
MENTAL AND BEHAVIORAL HEALTH EDUCATION AND TRAINING GRANTS	93.732		
STATE PUBLIC HEALTH APPROACHES FOR ENSURING QUITLINE CAPACITY FUNDED			
IN PART BY PREVENTION AND PUBLIC HEALTH FUNDS (PPHF)	93.735		
PPHF: RACIAL AND ETHNIC APPROACHES TO COMMUNITY HEALTH			GEORGIA SOUTHERN UNIVERSITY
PROGRAM FINANCED SOLELY BY PUBLIC PREVENTION AND HEALTH	02.720		RESEARCH AND SERVICE
FUNDS	93.738		FOUNDATION, INC.
PPHF: BREAST AND CERVICAL CANCER SCREENING OPPORTUNITIES FOR STATES, TRIBES AND TERRITORIES SOLELY FINANCED BY PREVENTION AND PUBLIC HEALTH			
FUNDS	93.744		
COVID - 19 - ELDER ABUSE PREVENTION INTERVENTIONS PROGRAM	93.747	COVID - 19	
PREVENTIVE HEALTH AND HEALTH SERVICES BLOCK GRANT FUNDED SOLELY WITH	3017 17	20112 13	
PREVENTION AND PUBLIC HEALTH FUNDS (PPHF)	93.758		
COVID - 19 - CHILDREN'S HEALTH INSURANCE PROGRAM	93.767	COVID - 19	
CHILDREN'S HEALTH INSURANCE PROGRAM	93.767		
MEDICARE SUPPLEMENTARY MEDICAL INSURANCE	93.774		
STATE MEDICAID FRAUD CONTROL UNITS	93.775		
STATE SURVEY AND CERTIFICATION OF HEALTH CARE PROVIDERS AND SUPPLIERS			
(TITLE XVIII) MEDICARE	93.777		
COVID - 19 - MEDICAL ASSISTANCE PROGRAM	93.778	COVID - 19	
MEDICAL ASSISTANCE PROGRAM	93.778		050001100117150111111111111111111111111
			GEORGIA SOUTHERN UNIVERSITY RESEARCH AND SERVICE
OPIOID STR	93.788		FOUNDATION, INC.
OPIOID STR	93.788		
MONEY FOLLOWS THE PERSON REBALANCING DEMONSTRATION	93.791		
STATE SURVEY CERTIFICATION OF HEALTH CARE PROVIDERS AND SUPPLIERS (TITLE	02.706		
XIX) MEDICAID	93.796		
			GEORGIA CENTER FOR ONCOLOGY
ORGANIZED APPROACHES TO INCREASE COLORECTAL CANCER SCREENING	93.800		RESEARCH AND EDUCATION, INC.
PAUL COVERDELL NATIONAL ACUTE STROKE PROGRAM NATIONAL CENTER FOR			,
CHRONIC DISEASE PREVENTION AND HEALTH PROMOTION	93.810		
DOMESTIC EBOLA SUPPLEMENT TO THE EPIDEMIOLOGY AND LABORATORY			
CAPACITY FOR INFECTIOUS DISEASES (ELC).	93.815		
COVID - 19 - HOSPITAL PREPAREDNESS PROGRAM (HPP) EBOLA PREPAREDNESS AND			
RESPONSE ACTIVITIES	93.817	COVID - 19	
HOSPITAL PREPAREDNESS PROGRAM (HPP) EBOLA PREPAREDNESS AND RESPONSE			
ACTIVITIES	93.817		
HEALTH CAREERS OPPORTUNITY PROGRAM	93.822		EMORY UNIVERSITY
EBOLA SUPPORT: TRANSMISSION AND PREVENTION CONTROL, PUBLIC	93.823		EMORY LIMITUED SITY
HEALTH PREPAREDNESS, VACCINE DEVELOPMENT CARDIOVASCULAR DISEASES RESEARCH	93.823		EMORY UNIVERSITY UT-BATTELLE, LLC
CANDIOVASCOLAN DISEASES NESEANCH	33.037		MASSACHUSETTS GENERAL
CARDIOVASCULAR DISEASES RESEARCH	93.837		HOSPITAL
CARDIOVASCULAR DISEASES RESEARCH	93.837		YALE UNIVERSITY
CARDIOVASCULAR DISEASES RESEARCH	93.837		
CARDIOVASCULAR DISEASES RESEARCH	93.837		UNIVERSITY OF FLORIDA
CARDIOVASCULAR DISEASES RESEARCH	93.837		NEW YORK UNIVERSITY
CARDIOVASCULAR DISEASES RESEARCH	93.837		INDIANA UNIVERSITY
CARDIOVASCULAR DISEASES RESEARCH	93.837		TEMPLE UNIVERSITY
CARDIOVASCULAR DISEASES RESEARCH	93.837		BOSTON CHILDREN'S HOSPITAL
CARDIOVASCULAR DISEASES RESEARCH	93.837		NEW YORK UNIVERSITY
CARDIOVASCULAR DISEASES RESEARCH	93.837		EMORY UNIVERSITY
0.00.00.400.4.0.045			ROCHESTER INSTITUTE OF
CARDIOVASCULAR DISEASES RESEARCH	93.837		TECHNOLOGY
CARDIOVASCULAR DISEASES RESEARCH	93.837		EMORY UNIVERSITY
			KENNESAW STATE UNIVERSITY
CARDIOVASCULAR DISEASES RESEARCH	93.837		RESEARCH AND SERVICE FOUNDATION
CANDIOVASCULAN DISEASES NESEARCH	33.03/		FOUNDATION

Identifying Number Assigned By Funder	Total Amount		Federal		
Pass-Through	Provided to	Federal	Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
,,			4		
"63828383-40"		\$289,352	\$1,962,292	N/A	
		\$808,046	\$1,962,292	N/A	44 000 004 0
		\$864,894	\$1,962,292	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		\$2,941	\$2,941	N/A	
#62020202 44#		Ć40 204	Ć40 204	21/2	
"63828383-41"		\$10,381	\$10,381	N/A	
		\$34	\$34	N/A	
		\$7,020	\$7,020	N/A	
	\$200,515	\$1,838,251	\$1,838,251	N/A	
	,,-	\$19,031,666	\$411,174,344	N/A	
		\$392,142,678	\$411,174,344	N/A	
		\$1,181,385	\$1,181,385	N/A	
		\$3,944,748	\$3,944,748	MEDICAID CLUSTER	\$9,199,057,0
		\$6,995,296	\$6,995,296	MEDICAID CLUSTER	\$9,199,057,0
		\$718,403,562	\$9,188,117,021	MEDICAID CLUSTER	\$9,199,057,
	\$64,347,591	\$8,469,713,459	\$9,188,117,021	MEDICAID CLUSTER	\$9,199,057,
"63828383-33"		\$54,127	\$25,198,265	N/A	
	\$3,674,811	\$25,144,138	\$25,198,265	N/A	
	\$2,714,944	\$8,488,810	\$8,488,810	N/A	
		\$2,033,871	\$2,033,871	N/A	
'1 NU58P006755-01-00"		\$119,357	¢110.257	N/A	
1 1038-000733-01-00			\$119,357		
		\$687,138	\$687,138	N/A	
		-\$26,003	-\$26,003	N/A	
		\$156,797	\$386,452	N/A	
		\$229,655	\$386,452	N/A	
"D18HP32120"		\$42,795	\$42,795	N/A	
"CON012341"		\$2,368	\$2,368	RESEARCH AND DEVELOPMENT	\$1,233,831,
"DEAC0500OR22725"		-\$740	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"PROTOCOL #: A5332"		\$2,109	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,
GR106003 (CON-800017"		\$3,425	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$4,080	\$28,402,114	N/A	
"CON014972"		\$5,651	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,
"CON012845"		\$6,612	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,
"SUBAWARD NO. 8089"		\$8,029	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,
"SUB NO. 260382-AURI"		\$8,355	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,
"GENFD0001776620"		\$9,179	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,
"18-A0-00-001801" SUB AWARD #: T657728"		\$10,890 \$12,304	\$28,402,114 \$28,402,114	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831, \$1,233,831,
		712,304	720,702,114		V1,233,031,
"32433-01"		\$16,490	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,
"A179709"		\$16,811	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,
"1R01HL140305-01A1"		\$18,120	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,
1N01HL140303-01A1		\$10,120	<i>\$20,402,</i> 114	NESEARCH AIND DEVELOPIVIEIN	<i>₹1,233,031,</i> 5

	Federal	Additional Award	Name of Funder
	CFDA	Identification	Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
CARDIOVASCULAR DISEASES RESEARCH	93.837		SUTTER HEALTH
CARRIONASCIU AR RICEARTS RESEARCU	02 027		BRIGHAM AND WOMEN'S
CARDIOVASCULAR DISEASES RESEARCH	93.837		HOSPITAL
CARDIOVASCULAR DISEASES RESEARCH	93.837		INNOVETA BIOMEDICAL, LLC
CARDIOVASCULAR DISEASES RESEARCH	93.837 93.837		EMORY UNIVERSITY UNIVERSITY OF FLORIDA
CARDIOVASCULAR DISEASES RESEARCH CARDIOVASCULAR DISEASES RESEARCH	93.837		EMORY UNIVERSITY
CARDIOVASCULAR DISEASES RESEARCH	93.837		UNIVERSITY OF IOWA
CARDIOVASCULAR DISEASES RESEARCH CARDIOVASCULAR DISEASES RESEARCH	93.837		UNIVERSITY OF VIRGINIA
CARDIOVASCULAR DISEASES RESEARCH	93.837		BOSTON CHILDREN'S HOSPITAL
CARDIO VASCOLARI DISLASLO RESLARCIT	33.037		BOSTON CHIEBREN STIOSITIAL
CARDIOVASCULAR DISEASES RESEARCH	93.837		PENNSYLVANIA STATE UNIVERSITY
CARDIOVASCULAR DISEASES RESEARCH	93.837		NEW YORK MEDICAL COLLEGE
CARDIOVASCULAR DISEASES RESEARCH	93.837		BAYLOR COLLEGE OF MEDICINE
CARDIOVASCULAR DISEASES RESEARCH	93.837		COLORADO STATE UNIVERSITY
CARDIOVASCULAR DISEASES RESEARCH	93.837		EMORY UNIVERSITY
CARDIOVASCULAR DISEASES RESEARCH	93.837		EMORY UNIVERSITY
CARDIOVASCULAR DISEASES RESEARCH	93.837		EMORY UNIVERSITY
CARDIOVASCULAR DISEASES RESEARCH	93.837		MEDICAL COLLEGE OF WISCONSIN
CARDIOVASCULAR DISEASES RESEARCH	93.837		MEDICAL COLLEGE OF WISCONSIN
0.000.00.00.00.00.00.00.00.00.00.00.00.	00.007		T
CARDIOVASCULAR DISEASES RESEARCH	93.837		THOMAS JEFFERSON UNIVERSITY
CARRIOVACCI II AR DICEACEC RECEARCH	02 027		MEDICAL COLLECT OF MUSCONISM
CARDIOVASCULAR DISEASES RESEARCH	93.837		MEDICAL COLLEGE OF WISCONSIN
CARDIOVASCULAR DISEASES RESEARCH	93.837		JOHNS HOPKINS UNIVERSITY
CARDIOVASCULAR DISEASES RESEARCH	93.837		
LUNC DISEASES DESCADOU	02.020		LININ/EDGITY OF DITTERUBELL
LUNG DISEASES RESEARCH LUNG DISEASES RESEARCH	93.838 93.838		UNIVERSITY OF PITTSBURGH UNIVERSITY OF PITTSBURGH
			UNIVERSITY OF PITTSBURGH
LUNG DISEASES RESEARCH LUNG DISEASES RESEARCH	93.838 93.838		AUGDIMER, LLC
LUNG DISEASES NESEANCH	93.030		PALO ALTO VETERANS INSTITUTE
LUNG DISEASES RESEARCH	93.838		FOR RESEARCH
LUNG DISEASES RESEARCH	93.838		WAYNE STATE UNIVERSITY
20110 2 1023 11202 1110/1	30.000		PALO ALTO VETERANS INSTITUTE
LUNG DISEASES RESEARCH	93.838		FOR RESEARCH
LUNG DISEASES RESEARCH	93.838		EMORY UNIVERSITY
LUNG DISEASES RESEARCH	93.838		
			THE NATIONAL MARROW DONOR
BLOOD DISEASES AND RESOURCES RESEARCH	93.839		PROGRAM
BLOOD DISEASES AND RESOURCES RESEARCH	93.839		CETYA THERAPEUTICS, INC.
			UNIVERSITY OF TENNESSEE HEALTH
BLOOD DISEASES AND RESOURCES RESEARCH	93.839		SCIENCES CENTER
BLOOD DISEASES AND RESOURCES RESEARCH	93.839		INDIANA UNIVERSITY
BLOOD DISEASES AND RESOURCES RESEARCH	93.839		INDIANA UNIVERSITY
BLOOD DISEASES AND RESOURCES RESEARCH	93.839		CETYA THERAPEUTICS, INC.
BLOOD DISEASES AND RESOURCES RESEARCH	93.839		EMORY UNIVERSITY
			GEORGIA SOUTHERN UNIVERSITY
			RESEARCH AND SERVICE
BLOOD DISEASES AND RESOURCES RESEARCH	93.839		FOUNDATION, INC.
BLOOD DISEASES AND RESOURCES RESEARCH	93.839		
ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	93.846		UNIVERSITY OF PENNSYLVANIA
ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	93.846		COLUMBIA UNIVERSITY
ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	93.846		PRINCETON UNIVERSITY
ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	93.846		UNIVERSITY OF OREGON
ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	93.846		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847		PENNSYLVANIA STATE UNIVERSITY
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847		MAYO CLINIC, ROCHESTER

Identifying Number Assigned By Funder	Total Amount		Federal		
Pass-Through Entity	Provided to Sub-Recipients	Federal Expenditures	Program Total	Cluster Name	Cluster Total
"280201017-S249"	Sub-Recipients	\$18,203	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,97
200201017 02 73		ψ10)200	<i>\$20,102,121</i>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<i>ψ1)200)001)37</i>
"121284"		\$20,660	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"RINNB0001254701"		\$25,666	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A430859"		\$39,623	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON011943"		\$47,829	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"T586137"		\$50,078	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON011476"		\$52,326	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"GB10347 2133564"		\$54,802	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"GENFD0001664762"		\$70,066	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"UGARFHL153231"		\$80,867	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"SUBAWARD NO 123102"		\$90,558	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"#P.O. 700000129"		\$105,412	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"G6518101"		\$105,488	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A022924"		\$116,317	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A21I700"		\$128,442	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A092263"		\$133,949	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"5P01HL116264-09"		\$164,078	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"5R01HL137748"		\$187,737	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,97
CLID 000 40007 C02202		6202.647	620 402 444	DECEARCH AND DEVELOPMENT	64 222 024 07
"SUB 080-18007-S02203"		\$202,647	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"5P01HL116264"		\$317,490	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"SUB NO. 2004437443"		\$426,352	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,97
302 110. 2004437443	\$3,004,666	\$25,842,209	\$28,402,114	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	43,001,000	ψ23/3 ·2/203	ψ20) (02)11 ·	NEGET WELLT WILL BETTER WILLIAM	ψ1,200,001,3 <i>1</i>
"CNVA00055772 (130240-1)"		-\$13,159	\$3,187,664	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CNVA00046691 (131692"		\$3,280	\$3,187,664	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CNV0056302 (130179-1)"		\$21,087	\$3,187,664	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"SUBAWARD 33486-1"		\$37,456	\$3,187,664	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"NIM0003-03"		\$39,624	\$3,187,664	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"WSU20014"		\$71,340	\$3,187,664	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"NUN 4004 2 02"		Ć7C 000	¢2.407.664	DECEARCH AND DEVELOPMENT	ć4 222 024 0 7
"NIM0013-03" "T863524/A029070/A191373		\$76,008	\$3,187,664	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"		\$141,132	\$3.187.664	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$749,114	\$2,810,896	\$3,187,664	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	ψ1.5)22.	<i>\$2,020,030</i>	ψο,207,001	NEGE, INGITA IN DEVELOT INCIN	Ψ1,200,001,07
"BMTCTN1506-2215-0304"		\$704	\$2,809,951	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"SUBAWARD NO 35490"		\$48,477	\$2,809,951	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"SUB # 21-0146-AURI"		\$62,385	\$2,809,951	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON013563"		\$70,287	\$2,809,951	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"0"		\$80,039	\$2,809,951	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"SUBAWARD 00034144"		\$115,787	\$2,809,951	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A035610"		\$121,778	\$2,809,951	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"63828383-42"		\$191,856	\$2,809,951	RESEARCH AND DEVELOPMENT	\$1,233,831,97
03020303-42	\$361,349	\$2,118,638	\$2,809,951	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"580569"	7301,343	\$25,390	\$2,555,829	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"2(GG014632-01)"		\$71,486	\$2,555,829	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"SUB0000252"		\$89,870	\$2,555,829	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"#217420A"		\$98,816	\$2,555,829	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$15,069	\$2,270,267	\$2,555,829	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		¢27.207	\$15,524,973	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"UGRFDK088244"		-\$37,207	\$13,324,973	KLSLAKCIT AND DEVELOP WIENT	71,233,631,37
"UGRFDK088244" "GEO-235217/PO#65641111"		-\$37,207 -\$566	\$13,324,373	RESEARCH AND DEVELOPMENT	\$1,233,831,97

Federal Awarding Agency/Program Title	Federal CFDA Number	Additional Award Identification (Optional)	Name of Funder Pass-Through Entity
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847		UNIVERSITY OF UTAH
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847		EMORY UNIVERSITY
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847		EMORY UNIVERSITY
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847		EMORY UNIVERSITY
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847		UNIVERSITY OF NORTH CAROLINA
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847		UNIVERSITY OF UTAH
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847		EMORY UNIVERSITY
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847		EMORY UNIVERSITY
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847		UNIVERSITY OF MARYLAND
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847		EMORY UNIVERSITY
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847		UNIVERSITY OF SOUTH FLORIDA
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847		VANDERBILT UNIVERSITY MEDICAL CENTER
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847		UNIVERSITY OF NORTH CAROLINA
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847		EMORY UNIVERSITY
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847		HGG RESEARCH, LLC
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847		TEXAS A&M AGRILIFE EXTENSION SERVICE
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847		UNIVERSITY OF SOUTH FLORIDA
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847		UNIVERSITY OF FLORIDA
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847		UNIVERSITY OF SOUTH FLORIDA
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847		EMORY UNIVERSITY
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847		INFRARED RX, INC.
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847		UNIVERSITY OF SOUTH FLORIDA
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847		UNIVERSITY OF NORTH CAROLINA
			UNIVERSITY OF CALIFORNIA, SAN
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	<i>93.847</i> 93.847		DIEGO
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND	33.047		
NEUROLOGICAL DISORDERS	93.853		MAYO CLINIC, JACKSONVILLE
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND			UNIVERSITY OF CALIFORNIA, SAN
NEUROLOGICAL DISORDERS	93.853		FRANCISCO
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND			
NEUROLOGICAL DISORDERS	93.853		UNIVERSITY OF CINCINNATI
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853		DUKE UNIVERSITY
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND	93.033		DONL DIVIVENSITY
NEUROLOGICAL DISORDERS	93.853		STANFORD UNIVERSITY
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND	02.052		LIAUN/EDOLTY OF CONCURS
NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND	93.853		UNIVERSITY OF CINCINNATI
NEUROLOGICAL DISORDERS	93.853		UNIVERSITY OF MICHIGAN

Identifying Number Assigned By Funder Pass-Through Entity	Total Amount Provided to Sub-Recipients	Federal Expenditures	Federal Program Total	Cluster Name	Cluster Total
"10040500-32"		-\$308	\$15,524,973	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"A375305"		\$1,445	\$15,524,973	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SUBAWARD NO. T826805"		\$3,644	\$15,524,973	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"A380085"		\$4,345	\$15,524,973	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SUBAWARD NO. 5112092"		\$4,352	\$15,524,973	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"1004050002"		\$5,744	\$15,524,973	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SUBAWARD NO. A421774"		\$6,584	\$15,524,973	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"A377120"		\$8,347	\$15,524,973	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CON011270"		\$12,535	\$15,524,973	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SUBAWARD # A351474"		\$13,440	\$15,524,973	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"6163-1017-00-E-TEDDY"		\$14,068	\$15,524,973	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"VUMC86160"		\$18,175	\$15,524,973	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SUBAWARD 5113996"		\$23,421	\$15,524,973	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"A380097"		\$26,686	\$15,524,973	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"R41DK121553"		\$26,974	\$15,524,973	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SUBAWARD #M2001963"		\$47,481	\$15,524,973	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SUB # 6163-1092-10-E"		\$58,235	\$15,524,973	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CON007686"		\$86,492	\$15,524,973	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SUB 6163-1050-00-E"		\$86,844	\$15,524,973	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"T663443"		\$130,040	\$15,524,973	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"AWD00011281"		\$171,368	\$15,524,973	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SUB # 6163-1092-00-E"		\$193,696	\$15,524,973	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SUB AWARD # 5111860"		\$254,152	\$15,524,973	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"DKNET COORDINATING U"	\$3,751,505	<i>\$797,336</i> \$13,567,650	<i>\$15,524,973</i> \$15,524,973	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	<i>\$1,233,831,971</i> \$1,233,831,971
"G130221"		-\$4,373	\$12,527,555	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"8445 (U54 NS065705)"		-\$85	\$12,527,555	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"UNS102289A"		\$1,500	\$12,527,555	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CON013118"		\$1,758	\$12,527,555	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SUB #61854954-125439"		\$2,998	\$12,527,555	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"UNS106513A"		\$4,827	\$12,527,555	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"# 360908-05430-02"		\$6,442	\$12,527,555	RESEARCH AND DEVELOPMENT	\$1,233,831,971

Fodoral Association Association Title	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND	Number	(Optional)	Entity MEDICAL UNIVERSITY OF SOUTH
NEUROLOGICAL DISORDERS	93.853		CAROLINA
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL			
DISORDERS	93.853		
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND			
NEUROLOGICAL DISORDERS	93.853		MOREHOUSE SCHOOL OF MEDICINE
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND			
NEUROLOGICAL DISORDERS	93.853		DUKE UNIVERSITY
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND			
NEUROLOGICAL DISORDERS	93.853		EMORY UNIVERSITY
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853		LINUVERSITY OF VIRCINIA
NEUROLOGICAL DISORDERS	93.633		UNIVERSITY OF VIRGINIA KENNESAW STATE UNIVERSITY
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND			RESEARCH AND SERVICE
NEUROLOGICAL DISORDERS	93.853		FOUNDATION
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND	30.033		
NEUROLOGICAL DISORDERS	93.853		EMORY UNIVERSITY
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND			
NEUROLOGICAL DISORDERS	93.853		DREXEL UNIVERSITY
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND			
NEUROLOGICAL DISORDERS	93.853		UNIVERSITY OF VIRGINIA
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND			OREGON HEALTH AND SCIENCE
NEUROLOGICAL DISORDERS	93.853		UNIVERSITY
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND	02.052		MEDICAL UNIVERSITY OF SOUTH
NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND	93.853		CAROLINA ICAHN SCHOOL OF MEDICINE AT
NEUROLOGICAL DISORDERS	93.853		MOUNT SINAI
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND	33.633		ADVANCED BIOMEDICAL
NEUROLOGICAL DISORDERS	93.853		INFORMATICS GROUP, LLC
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND			CASE WESTERN RESERVE
NEUROLOGICAL DISORDERS	93.853		UNIVERSITY
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND			
NEUROLOGICAL DISORDERS	93.853		EMORY UNIVERSITY
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND			MASSACHUSETTS INSTITUTE OF
NEUROLOGICAL DISORDERS	93.853		TECHNOLOGY
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL	02.052		
DISORDERS	93.853		THE RESEARCH FOUNDATION FOR
			THE STATE UNIVERSITY OF NEW
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		YORK
ALLEROY AND IN LOTTOGS DISEASES RESEARCH	33.033		UNIVERSITY OF LOUISIANA AT
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		LAFAYETTE
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		EMORY UNIVERSITY
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		UNIVERSITY OF MICHIGAN
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		THOMAS JEFFERSON UNIVERSITY
			VIRGINIA COMMONWEALTH
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		UNIVERSITY
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		EMORY UNIVERSITY
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		MICROBIOTIX, INC.
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		LOUISIANA STATE UNIVERSITY
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		UNIVERSITY OF ALABAMA AT BIRMINGHAM
ALLERGY AND INFECTIOUS DISEASES RESEARCH ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		EMORY UNIVERSITY
ALLENGT AIND INFECTIOUS DISEASES RESEARCH	33.033		EIVION I UNIVERSII I
			UNIVERSITY OF MASSACHUSETTS
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		MEDICAL SCHOOL
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		UNIVERSITY OF PENNSYLVANIA
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		EMORY UNIVERSITY
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		TEXAS A&M UNIVERSITY
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		UNIVERSITY OF MISSISSIPPI
			UNIVERSITY OF ALABAMA AT
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		BIRMINGHAM

Identifying Number Assigned By Funder Pass-Through Entity	Total Amount Provided to Sub-Recipients	Federal Expenditures	Federal Program Total	Cluster Name	Cluster Total
"SUB MUSC18-107-8D574"		\$12,454	\$12,527,555	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$14,691	\$12,527,555	N/A	Ş
"MELLER-370078 R01 GT"		\$20,023	\$12,527,555	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON014549"		\$20,649	\$12,527,555	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A310511"		\$30,910	\$12,527,555	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON010330"		\$39,158	\$12,527,555	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"1R15NS100632-01"		\$53,827	\$12,527,555	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A308633"		\$60,076	\$12,527,555	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"900052"		\$61,694	\$12,527,555	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"SUB: 10253-155959"		\$109,181	\$12,527,555	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"SUB 1013756_AUGUSTA"		\$145,063	\$12,527,555	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A00-4016-S002"		\$150,667	\$12,527,555	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"0254-A444-4609"		\$172,632	\$12,527,555	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON012269"		\$208,950	\$12,527,555	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"SUB NO RES513170"		\$215,095	\$12,527,555	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A204324"		\$256,504	\$12,527,555	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"#64620"		\$348,605	\$12,527,555	RESEARCH AND DEVELOPMENT	\$1,233,831,93
	\$1,047,416	\$10,594,309	\$12,527,555	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"R1215576"		-\$22,905	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"87100-01"		-\$14,740	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"T939590"		-\$9,923	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"3004744318"		-\$8,719	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"CON007819"		\$345	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"CON012679"		\$5,625	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"A301957"		\$7,276	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"CON009947"		\$8,382	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"PO0000129354"		\$10,192	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"000521324-002"		¢10 224	622.067.152	RESEARCH AND DEVELOPMENT	¢1 222 021 0
"A007606"		\$10,324 \$13,113	\$33,967,152 \$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,9 \$1,233,831,9
"OSP29915UGA"		\$15,653	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"579185"		\$17,048	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"A451237"		\$17,225	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"M1802379"		\$18,373	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"CON013362"		\$20,096	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"000528527-001"		\$20,720	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,9

	Federal	Additional Award	Name of Funder
	CFDA	Identification	Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		EMORY UNIVERSITY
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		UNIVERSITY OF TEXAS AT AUSTIN
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		EMORY UNIVERSITY
			GEORGIA SOUTHERN UNIVERSITY RESEARCH AND SERVICE
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		FOUNDATION, INC. UNIVERSITY OF CALIFORNIA, SANTA
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		CRUZ
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		UNIVERSITY OF TEXAS AT AUSTIN
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		ASCRIBE BIOSCIENCE
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		UNIVERSITY OF IOWA
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		THOMAS JEFFERSON UNIVERSITY
			KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		FOUNDATION
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		UNIVERSITY OF WASHINGTON
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		UNIVERSITY OF OKLAHOMA
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		UNIVERSITY OF RHODE ISLAND
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		TRELLIS BIOSCIENCE
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		BOSTON UNIVERSITY
ALLENOT AND IN LETIOUS DISEASES RESEARCH	33.033		UNIVERSITY OF WISCONSIN -
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		MADISON
ALLEDOV AND INFECTIOUS DISEASES DESCRAPED	02.055		LIENDY FORD LIENTIL CYCTEM
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		HENRY FORD HEALTH SYSTEM
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		EMORY UNIVERSITY
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		NORTHWESTERN UNIVERSITY
ALLERGY AND INFECTIOUS DISEASES RESEARCH ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		EMORY UNIVERSITY
ALLERGY AND INFECTIOUS DISEASES RESEARCH ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		UNIVERSITY OF ARIZONA
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		CAMELLIX, LLC
ALLENOT AND INTECTIOUS DISEASES RESEARCH	33.833		UNIVERSITY OF HOUSTON-CLEAR
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		LAKE
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		UNIVERSITY OF PENNSYLVANIA
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		EMORY UNIVERSITY
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		UNIVERSITY OF IOWA
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		UNIVERSITY OF PENNSYLVANIA
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		EMORY UNIVERSITY
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		GEORGE WASHINGTON UNIVERSITY
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		EMORY UNIVERSITY
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		EMORY UNIVERSITY
			THE RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		YORK
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		HEALTH RESEARCH, INC.
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		BOSTON UNIVERSITY
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		NXT BIOLOGICS, INC.
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		TRELLIS BIOSCIENCE
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		VAXNEWMO
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		EMORY UNIVERSITY
The state of the s	33.033		CASE WESTERN RESERVE
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		UNIVERSITY
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		UNIVERSITY OF MINNESOTA
ALLELIST AND IN LONG OF DISEASES RESEARCH	33.033		UNIVERSITY OF LOUISIANA AT
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		LAFAYETTE
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		NORTHEASTERN UNIVERSITY
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		THE SCRIPPS RESEARCH INSTITUTE

Assigned By Funder	Total Amount		Federal		
Pass-Through Entity	Provided to Sub-Recipients	Federal Expenditures	Program Total	Cluster Name	Cluster Total
"A395206"		\$22,008	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"UTA16000613"		\$24,591	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A CREEN AENT DED 0/20/40"					
"AGREEMENT DTD 8/30/19"		\$29,775	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"63828383-43"		\$30,791	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A20-0150-S001 P0725110"		\$31,007	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"UTA20-000930"		\$31,094	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"AWD00012131"		\$32,399	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"S0061901"		\$34,216	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON010953"		\$36,421	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"SUB00002543"		\$47,148	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"UWSC12199"		\$47,448	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"2020-77"		\$49,401	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON013767"		\$49,813	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"RTREL0001159001"		\$54,582	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"#-4500002698"		\$58,398	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"671"		\$60,750	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"SUBAWARD B23829AURI"		\$61,057	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A481051"		\$61,899	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"1405"		\$63,752	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"60056418UG"		\$70,242	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A333692"		\$75,325	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"409281"		\$81,515	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"SUBAWARD # 33371-1"		\$82,370	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON009007"		\$82,990	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON010430"		\$89,052	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A237526"		\$92,148	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"S01421-01"		\$92,643	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON014740"		\$95,937	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A085091"		\$97,051	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON011131"		\$97,457	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A426469"		\$101,442	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON013479"		\$102,439	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"R1215574"		\$103,175	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"313-01"		\$115,158	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"4500002639"		\$117,907	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"RNXTB0001160401"		\$125,240	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"2R44AI106077-05"		\$125,412	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"RVXXX0001029101"		\$127,233	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"T715255"		\$139,012	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"RES514756"		\$147,486	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"TBD"		\$163,853	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"#330136"		\$178,164	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"50049178050"		\$190,638	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"7000000308"		\$191,533	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97

		Additional	
	Federal	Award	Name of Funder
	CFDA	Identification	Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
			THE LUNDQUIST INSTITUTE FOR
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		BIOMEDICAL INNOVATION
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		EMORY UNIVERSITY
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		STANFORD UNIVERSITY
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		UNIVERSITY OF NORTH CAROLINA
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		THE SCRIPPS RESEARCH INSTITUTE
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		WASHINGTON STATE UNIVERSITY
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		NORTHEASTERN UNIVERSITY
ALLED CV AND INFECTIOUS DISEASES DESCRAPEU	02.055		UNIVERSITY OF TEXAS MD
ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		ANDERSON CANCER
ALLERGY AND INFECTIOUS DISEASES RESEARCH ALLERGY AND INFECTIOUS DISEASES RESEARCH	93.855 93.855		UNIVERSITY OF IOWA
LLERGY AND INFECTIOUS DISEASES RESEARCH	93.855		EPIVAX, INC.
NATIONAL COLLABORATION TO SUPPORT HEALTH, WELLNESS AND	33.633		NATIONAL NETWORK OF PUBLIC
ACADEMIC SUCCESS OF SCHOOL-AGE CHILDREN	93.858		HEALTH INSTITUTES
ACADEMIC SOCCESS OF SCHOOL-AGE CHIEDREN	93.838		HEALITINSTITUTES
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859		THE SCRIPPS RESEARCH INSTITUTE
BIOWIEDICAE NESEANCH AND NESEANCH THAINNING	33.033		THE SCRIPTS RESEARCH INSTITUTE
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859		UNIVERSITY OF SAN FRANCISCO
	30.033		CHITZHOLL OF SHITTH INCIDED
COVID - 19 - BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859	COVID - 19	UNIVERSITY OF PITTSBURGH
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859		NORTHERN ILLINOIS UNIVERSITY
			KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859		FOUNDATION
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859		EMORY UNIVERSITY
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859		GLYCOSCIENTIFIC, LLC
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859		VIAMUNE, INC.
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859		EMORY UNIVERSITY
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859		UNIVERSITY OF MISSISSIPPI
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859		PENNSYLVANIA STATE UNIVERSITY
			UNIVERSITY OF WISCONSIN -
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859		MADISON
			UNIVERSITY OF CALIFORNIA,
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859		RIVERSIDE
			KENNESAW STATE UNIVERSITY
DIOMEDICAL DECEADOU AND DECEADOU TRAINING	02.050		RESEARCH AND SERVICE
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859		FOUNDATION
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859		THE SCRIPPS RESEARCH INSTITUTE
BIOWILDICAL RESEARCH AND RESEARCH TRAINING	93.639		GLYCO EXPRESSION
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859		TECHNOLOGIES. INC.
BIOWILDICAL RESEARCH AND RESEARCH TRAINING	93.839		KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859		FOUNDATION
IOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859		700110111011
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859		EMORY UNIVERSITY
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859		Z BIOTECH, LLC
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859		YALE UNIVERSITY
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859		GEORGETOWN UNIVERSITY
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859		HARVARD UNIVERSITY
			KENNESAW STATE UNIVERSITY
			RESEARCH AND SERVICE
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859		FOUNDATION
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859		NEW YORK UNIVERSITY

Pass Provided to Expenditures Total Courter	Identifying Number Assigned By Funder	Total Amount		Federal			
South Sub-Recipients Expenditures		Provided to	Federal	Program	Cluster	Cluster	
"F0000550" \$230,051 \$33,967,152 RESPARCH AND DEVELOPMENT \$1,233, \$1,230,051 \$33,967,152 RESPARCH AND DEVELOPMENT \$1,233, \$1,230,051 \$33,967,152 RESPARCH AND DEVELOPMENT \$1,233,057,152 RESPARCH AND DEVELOPME	~	Sub-Recipients	Expenditures	-	Name		
"F0000550" \$230,051 \$33,967,152 RESPARCH AND DEVELOPMENT \$1,233, \$1,230,051 \$33,967,152 RESPARCH AND DEVELOPMENT \$1,233, \$1,230,051 \$33,967,152 RESPARCH AND DEVELOPMENT \$1,233,057,152 RESPARCH AND DEVELOPME	"30636HG"		\$201.873	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"\$116715" \$212,061 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "\$116715" \$212,061 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "\$-\$3830" \$239,154 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "\$-\$3830" \$239,154 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "\$0003509" \$300,005 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "\$5063378950" \$302,732 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "\$7063379500" \$315,076 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "\$1092-01" \$325,654 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "\$1055" \$593,374 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "\$1055" \$593,374 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "\$1023" \$5,002,452 \$27,334,873 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "\$2,004,1324" \$2,668 \$2,668 N/A "\$5-\$4419" \$664 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "\$2,004,1473" \$4,414 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "\$2,004,1473" \$4,414 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "\$2,004,1473" \$9,520 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "\$2,004,154,154,154,154,154,154,154,154,154,15			' '			\$1,233,831,97	
"CONDISOR" \$39,154 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "CONDISORS" \$30,032 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "SO065378050" \$310,076 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "FRODISORS" \$310,076 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "SO1802-01" \$12,544 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "ROSS" \$5,002,452 \$77,334,873 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "CONDI3324" \$2,668 \$2,668 \$N/A "CONDI3324" \$2,668 \$2,5248,057 RESEARCH AND DEVELOPMENT \$1,233, "CONDI1473" \$4,414 \$25,748,057 RESEARCH AND DEVELOPMENT \$1,233, "CONDI1473" \$4,414 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "CONDI1473" \$4,414 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "GOAGE \$1,000,000,000,000,000,000,000,000,000,0						\$1,233,831,97	
"CONDISOR" \$39,154 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "CONDISORS" \$30,032 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "SO065378050" \$310,076 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "FRODISORS" \$310,076 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "SO1802-01" \$12,544 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "ROSS" \$5,002,452 \$77,334,873 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "CONDI3324" \$2,668 \$2,668 \$N/A "CONDI3324" \$2,668 \$2,5248,057 RESEARCH AND DEVELOPMENT \$1,233, "CONDI1473" \$4,414 \$25,748,057 RESEARCH AND DEVELOPMENT \$1,233, "CONDI1473" \$4,414 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "CONDI1473" \$4,414 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "GOAGE \$1,000,000,000,000,000,000,000,000,000,0						,	
"CONDUSSIOS" \$30,005 \$33,67,152 RESEARCH AND DEVELOPMENT \$1,233, "\$50065378050" \$315,076 \$33,067,152 RESEARCH AND DEVELOPMENT \$1,233, "\$70019053" \$315,076 \$33,067,152 RESEARCH AND DEVELOPMENT \$1,233, "\$70120-01" \$22,544 \$33,067,152 RESEARCH AND DEVELOPMENT \$1,233, "\$70019051" \$23,544 \$33,067,152 RESEARCH AND DEVELOPMENT \$1,233, "\$70051" \$5,002,452 \$77,334,873 \$33,67,152 RESEARCH AND DEVELOPMENT \$1,233, "\$70013324" \$2,668 \$2,668 N,A "\$75,4419" \$664 \$22,548,057 RESEARCH AND DEVELOPMENT \$1,233, "\$75,4419" \$664 \$22,548,057 RESEARCH AND DEVELOPMENT \$1,233, "\$7001173" \$4,414 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "\$7000002352 (134997- 11)" \$9,520 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "\$8016M116889-02" \$9,520 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "\$8016M116889-02" \$9,520 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "\$816M116889-02" \$20,768 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "\$816M116889-02" \$20,768 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "\$816M116889-02" \$20,768 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "\$816M116889-02" \$24,964 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "\$850R520" \$33,794 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "\$90000" \$1,230,240,250 RESEARCH AND DEVELOPMENT \$1,233, "\$90000" \$1,230,240,250 RESEARCH AND DEVELOPMENT \$1,233, "\$90000" \$	"5116715"		\$212,061	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"\$0065378050" \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233,6" "\$70019050" \$315,076 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233,6" "\$01492-01" \$325,454 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233,6" "\$0503" \$5,002,452 \$27,334,873 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233,6" "\$0503324" \$2,668 \$2,668 N/A "\$5-\$4419" \$5,668 \$2,548,057 RESEARCH AND DEVELOPMENT \$1,233,4" "\$5-\$4419" \$664 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4" "\$5-\$4419" \$4,414 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4" AWDO0002352 (134997- 11)" \$9,520 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4" "\$614626676" \$15,229 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4" "\$7016M116889-02" \$20,768 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4" "\$748908 (137966)" \$1,233,4" "\$748908 (137966)" \$24,954 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4" "\$74000001356" \$34,954 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4" "\$74000001356" \$34,954 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4" "\$75000174DHH5" \$44,954 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4" "\$75000174DHH5" \$43,876 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4" "\$75000174DHH5" \$1,233,4" "\$75000174DHH5" \$1,233,4" "\$75000174DHH5" \$1,233,4" "\$7500075007507507507507507507507507507507	"5-53830"		\$239,154	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"\$0065378050" \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233,6" "\$01692-01" \$335,64 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233,6" "\$01692-01" \$335,64 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233,6" "\$035" \$5,002,452 \$27,334,873 \$33,67,152 RESEARCH AND DEVELOPMENT \$1,233,6" "\$03324" \$2,668 \$2,668 NA "\$5,6419" \$5,664 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,6" "\$0,0011473" \$4,414 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4" **WD00002352 (134997-** 11)" \$9,520 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4" "\$61,642,6676" \$15,229 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4" "\$7,001116889-02" \$20,768 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4" "\$1,234,000 \$1,235,000 \$1,2	"CON000500"		¢200.005	622.067.452	DECEARCH AND DEVELOPMENT	ć1 222 021 0 2	
"FRO0019053" \$31,5076 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "\$01492-01" \$325,454 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "\$053,374 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "\$053,374 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "\$050,052,452 \$27,334,873 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "\$07,001,3324" \$2,668 \$22,668 N/A \$1,233,4" \$2,568 N/A \$1,233,4" \$2,568 N/A \$1,233,4" \$2,568 N/A \$1,233,4" \$2,548,057 RESEARCH AND DEVELOPMENT \$1,233,4" \$1,233,4" \$2,548,057 RESEARCH AND DEVELOPMENT \$1,233,4" \$1,							
"SOLIGNOCOL" \$325,454 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "ROSS" \$503,374 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "S3,967,152 RESEARCH AND DEVELOPMENT \$1,233, "CON013324" \$2,668 \$2,668 N/A \$1,233, "CON013324" \$2,668 \$2,668 N/A \$1,233, "CON013324" \$2,668 \$2,668 N/A \$1,233, "CON013324" \$4,414 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "CON011473" \$4,414 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "CON011473" \$4,414 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "CON011473" \$4,414 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "G16,26676" \$15,229 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "G16,26676" \$15,229 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "S7,048,057 \$1,239, "S7,048,057 \$	30005378050		\$302,732	<i>\$33,907,132</i>	RESEARCH AND DEVELOPMENT	\$1,233,631,97	
"ROSS" \$5,002,452 \$27,334,873 \$33,967,152 RESEARCH AND DEVELOPMENT \$1,233, "CON013324" \$2,668 \$2,668 N/A "5-54419" \$664 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "CON011473" \$4,414 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "AWD00002352 (134997- 11)" \$9,520 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "G1A626676" \$15,229 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "G1A626676" \$15,229 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "G1A626676" \$15,229 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "G1A626676" \$21,233,035 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "SR01GM116889-02" \$20,768 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "G1A626676" \$23,035 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "WW000011586" \$36,099 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "WW000011586" \$36,099 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "G1A6760" \$36,473 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "G1A6760" \$43,876 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "G1A6760" \$54,876 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "W856K520" \$52,456 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "S-001363" \$63,750 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "S-001363" \$53,750 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "G1A671-20-20001" \$581,292 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "G1A671-20-10" \$118,547 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233, "G1A671-20-20001" \$1,293,48,057 RESEARCH AND DEVELOPMENT \$1,233,48,057 RESEARC	"FP00019053"		\$315,076	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
**************************************	"S01492-01"		\$325,454	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"CON013324" \$2,668 \$2,668 N/A "5-54419" \$664 \$22,5248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "CON011473" \$4,414 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "WINDOO02352 (134997- 11)" \$9,520 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "G1A626676" \$15,229 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "SROIGM116889-02" \$20,768 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "SROIGM116889-02" \$23,035 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "TRAIGM139440-01" \$24,954 \$15,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "TRAIGM139440-01" \$24,954 \$15,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "TRAIGM139440-01" \$36,099 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "TRAIGM139440-01" \$36,473 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "TROIGM1368" \$36,099 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "TROIGM1368" \$37,794 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "SO00174DHHS" \$43,876 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "SO00174DHHS" \$43,876 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "B656K520" \$52,456 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "TRISGM140472-01" \$69,699 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "SO00174DHHS" \$43,876 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "TRISGM140472-01" \$69,699 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "TRISGM140472-01" \$69,699 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "TRISGM129771-01" \$118,547 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "GET-20-20001" \$81,292 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "GET-20-20001" \$1,234,057 RESEARCH AND DEVELOPMENT \$1,233,4 "TRISGM129771-01" \$1,254,057 RESEARCH AND DEVELOPMENT \$1,233,4 "TRISGM129771-01" \$1,254,057 RESEARCH AND DEVELOPMENT \$1,233,4 "TRISGM12989GR205576" \$1,234,057 RESEARCH AND DEVELOPMENT \$1,233,4 "TRISGM129871-01" \$1,234,057 RESEARCH AND DEVELOPMENT \$1,233,4 "TRISGM12989GR205576" \$1,234,057 RESEARCH AND DEVELOPMENT \$1,233,4 "TRISGM129871-01" \$1,234,057 RESEARCH AND DEVELOPMENT \$1,233,4 "TRISGM129870-000740" \$2,246,677 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,23	"ROSS"		\$503,374	\$33,967,152		\$1,233,831,97	
"S-54419" \$664 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "CONDITAT3" \$4.414 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "CONDITAT3" \$9,520 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "G1A626676" \$15,229 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "G1A626676" \$15,229 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "SROIGM116889-02" \$20,768 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "FROIGM116889-02" \$23,035 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "R141GM139440-01" \$24,954 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "R41GM139440-01" \$24,954 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "T674760" \$36,473 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "S000174DHHS" \$43,876 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "S000174DHHS" \$43,876 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "8856K520" \$52,48,057 RESEARCH AND DEVELOPMENT \$1,233,8 "S000174DHHS" \$69,699 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "S500174DHHS" \$69,699 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "S500174DHHS" \$69,699 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "S500174DHS" \$1,233,8 "S52,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "S500174DHS" \$1,233,8 "S50,000 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "S120,777 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "S120,777 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "R07185906,005 \$1,233,8 "S125,712 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "R07185(CON80001879)" \$145,687 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "R0718500001879)" \$145,687 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "R0718500001879)" \$145,687 \$25,248,057 RESEARCH		\$5,002,452	\$27,334,873	\$33,967,152	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"CON011473" \$4,414 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 \$1,000002352 (134997-11)" \$9,520 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "G1A626676" \$15,229 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "\$76016M116889-02" \$20,768 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "\$76016M116889-02" \$23,035 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "\$76040001186" \$24,954 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "\$7604001186" \$36,099 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "\$7674760" \$36,473 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "\$709020" \$33,794 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "\$90020" \$33,794 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "\$8506K520" \$52,48,057 RESEARCH AND DEVELOPMENT \$1,233,4 "\$900174DHHS" \$43,876 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "\$900174DHHS" \$43,876 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "\$900163" \$63,750 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "\$900163" \$63,750 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 "\$123,64" \$1,232,	"CON013324"		\$2,668	\$2,668	N/A	\$	
"CON011473" \$4,414 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,4 \$	"5-54419"		\$664	\$25 248 057	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
AWD00002352 (134997- 11)" \$9,520 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "G1A626676" \$15,229 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "SR01GM116889-02" \$20,768 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "SR01GM16889-02" \$23,035 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "RAIGM139440-01" \$24,954 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "AWD00011586" \$36,099 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1909020" \$37,794 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "5000174DHH5" \$43,876 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "8500174DH45" \$54,876 \$55,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "85001363" \$563,750 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "854020" \$57,500 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "854020" \$57,500 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "854020" \$57,500 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "855420" \$51,233,8 "855420" \$51,233,8 "856473 \$52,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "855420" \$51,233,8 "855420" \$52,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "81,233,8 "81,233,8 "81,233,8 "81,233,8 "81,233,8 "81,233,8 "81,233,8 "81,233,8 "81,233,8 "81,233,8 RESEARCH AND DEVELOPMENT \$1,233,8 "81,233,8 "81,233,8 "81,233,8 RESEARCH AND DEVELOPMENT \$1,233,8 "81,233,8 "81,233,8 RESEARCH AND DEVELOPMENT \$1,233,8 RESEARCH AND DEVELOPMENT \$1,233,8 "81,233,8 RESEARCH AND DEVELOPMENT \$1,233,8 RESEARCH AND DEVE	3 34413		7004	723,240,037	RESEARCH AND DEVELOT WENT	71,233,631,37	
11)" \$9,520 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8" "G1AG2G676" \$15,229 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8" "SROIGM116889-02" \$20,768 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8" "G1AG908 (T379665)" \$23,035 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8" "G1AG900011586" \$24,954 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8" "AW000011586" \$36,099 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8" "4767460" \$36,473 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8" "5900020" \$37,794 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8" "5900174DHH5" \$43,876 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8" "#856K520" \$52,456 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8" "5-001363" \$63,750 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8" "5-001363" \$63,750 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8" "554207" \$57,500 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8" "657,20001" \$81,292 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8" "667-20-20001" \$81,292 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8" "671,207,207 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8" "671,207,207,207,207,207,207,207,207,207,207			\$4,414	\$25,248,057	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"G1A626676" \$15,229 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "SR0IGM116888-02" \$20,768 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "T648908 (7379665)" \$23,035 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "IRAIGM139440-02" \$24,954 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "AWD00011586" \$36,099 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "199020" \$37,794 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "199020" \$37,794 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$900174DHHS" \$43,876 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "#856K520" \$52,456 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$-001363" \$63,750 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$1156M140472-01" \$69,699 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$54207" \$75,500 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$123,22 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$123,23 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$123,27 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$123,28 \$25,248,057 RESE	•		\$0.520	\$25.248.057	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"5R01GM116889-02" \$20,768 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8	11)		\$9,52U	\$25,246,057	RESEARCH AND DEVELOPMENT	\$1,233,631,97	
"T648908 (T379665)" \$23,035 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "IGHIM139440-01" \$24,954 \$36,099 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "T674760" \$36,473 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1909020" \$31,794 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "S000174DHHS" \$43,876 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "S000174DHHS" \$43,876 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "S-001363" \$63,750 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "IR15GM140472-01" \$69,699 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "GET-20-20001" \$81,292 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "IR15GM129771-01" \$118,547 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "IR15GM129771-01" \$118,547 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "GET-20-20001" \$118,547 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "RESEARCH AND DEVELOPMENT \$1,233,8	"G1A626676"		\$15,229	\$25,248,057	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"T648908 (T379665)" \$23,035 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "IGHIM139440-01" \$24,954 \$36,099 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "T674760" \$36,473 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1909020" \$31,794 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "S000174DHHS" \$43,876 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "S000174DHHS" \$43,876 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "S-001363" \$63,750 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "IR15GM140472-01" \$69,699 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "GET-20-20001" \$81,292 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "IR15GM129771-01" \$118,547 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "IR15GM129771-01" \$118,547 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "GET-20-20001" \$118,547 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "RESEARCH AND DEVELOPMENT \$1,233,8							
"TR41GM139440-01" \$24,954 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,23	"5R01GM116889-02"		\$20,768	\$25,248,057	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"AWD00011586" \$36,099 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1674760" \$36,473 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1909020" \$37,794 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "5000174DHHS" \$43,876 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "8856K520" \$52,456 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "856K520" \$52,456 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "5-001363" \$63,750 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1715GM140472-01" \$69,699 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "554207" \$75,500 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "6GET-20-20001" \$81,292 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1715GM129771-01" \$118,547 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1715GM129771-01" \$1,233,8 "1715GM129791" \$1,233,8 "1715GM129791" \$1,233,8 "1715GM1115G5-02" \$1,233,8 "1715GM11115G5-02" \$1,233,8 "1715GM11115G5-02" \$1,233,8 "1715GM11115G5-02" \$1,2	"T648908 (T379665)"		\$23,035	\$25,248,057	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"T674760" \$36,473 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1909020" \$37,794 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$5000174DHHS" \$43,876 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$5000174DHHS" \$43,876 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$65,00174DHHS" \$52,456 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$-001363" \$63,750 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$1156M140472-01" \$69,699 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$54207" \$75,500 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$6677 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$118,547 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$120,727 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$100,727 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$100,727 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$100,727 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$100,727,72899GR205576" \$145,687 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$100,777,72899GR205576" \$185,847 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$132,865,5112927" \$192,176 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$132,865,5112927" \$194,994 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$123,286,5112927" \$194,994 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 \$123,286,5112927" \$194,994 \$25,248,057 RESEARCH AND D	"1R41GM139440-01"		\$24,954	\$25,248,057	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"1909020" \$37,794 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "5000174DHHS" \$43,876 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "#856K520" \$52,456 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "5-001363" \$63,750 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "5-001363" \$69,699 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "554207" \$75,500 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "554207" \$75,500 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "6GFT-20-20001" \$81,292 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1715GM129771-01" \$118,547 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1715GM129771-01" \$120,727 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1715GM129771-01" \$124,279 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "CON013283" \$125,712 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "17185(CON80001879)" \$145,687 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "133286-5112927" \$192,176 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "133286-5112927" \$192,176 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "133286-5112927" \$194,994 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "137-A1-00-007405-01; PROJECT # 109740" \$246,677 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "137-A1-00-007405-01; PROJECT # 109740" \$246,677 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "137-A1-00-007405-01; PROJECT # 109740" \$246,677 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "133286-5112927" \$192,176 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "133286-5112927" \$192,176 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "133286-5112927" \$192,176 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "132,234,057 RESEARCH AND DEVELOPMENT \$1,233,8 "132,234,057 RESEARCH AND DEVELOPMENT \$1,233,8 "132,234,057 RESEARCH AND DEVELOPMENT \$1,233,8 "132,244,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1323,244,057 RESEARC	"AWD00011586"		\$36,099	\$25,248,057	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"S000174DHHS" \$43,876 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "#856K520" \$52,456 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$-001363" \$63,750 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$1,233,8 "\$1,233,8 "\$1,233,8 "\$1,233,8 "\$1,233,8 "\$2,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$2,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$2,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$43,876 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$41,233,	"T674760"		\$36,473	\$25,248,057	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"#856K520" \$52,456 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$-001363" \$63,750 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$1,233,8 "\$1,233,8 "\$1,233,8 "\$1,233,8 "\$1,233,8 "\$2,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$120,727 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$120,728 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$120,728,996,205576" \$145,687 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "\$1,233,	"1909020"		\$37,794	\$25,248,057	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"S-001363" \$63,750 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1R15GM140472-01" \$69,699 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "554207" \$75,500 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "GET-20-20001" \$81,292 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1R15GM129771-01" \$118,547 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1R15GM129771-01" \$118,547 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1R003475" \$124,279 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "CON013283" \$124,279 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 R107185(CON80001879)" \$145,687 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 R107185(CON80001879)" \$145,687 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "133286-5112927" \$192,176 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "5R25GM111565-02" \$194,994 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "5R25GM111565-02" \$194,994 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "17-A1-00-007405-01; PROJECT # 109740" \$246,677 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8	"S000174DHHS"		\$43,876	\$25,248,057	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"S-001363" \$63,750 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1R15GM140472-01" \$69,699 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "554207" \$75,500 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "GET-20-20001" \$81,292 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1R15GM129771-01" \$118,547 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1R15GM129771-01" \$118,547 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1R003475" \$120,727 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1CON013283" \$124,279 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1CON013283" \$125,712 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1CON155(CON80001879)" \$145,687 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1R15GM11565-02" \$192,176 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1SR25GM111565-02" \$194,994 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1T-A1-00-007405-01; PROJECT # 109740" \$246,677 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8	"""		450.450	4	2555 1250 1112 2515 12515	44 222 224 2	
"1R15GM140472-01" \$69,699 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "554207" \$75,500 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "GET-20-20001" \$81,292 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1R15GM129771-01" \$118,547 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "120,727 \$25,248,057 N/A "A003475" \$120,727 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "CON013283" \$124,279 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "CON013283" \$125,712 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 R107185(CON80001879)" \$145,687 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "AWD7772899GR205576" \$185,847 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "133286-5112927" \$192,176 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "57825GM111565-02" \$194,994 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "17-A1-00-007405-01; PROJECT # 109740" \$246,677 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "17-A1-00-007405-01; PROJECT # 109740" \$246,677 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8	"#856K520"		\$52,456	\$25,248,057	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"554207" \$75,500 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "GET-20-20001" \$81,292 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1R15GM129771-01" \$118,547 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 \$120,727 \$25,248,057 N/A "A003475" \$124,279 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "CON013283" \$125,712 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 R107185(CON80001879)" \$145,687 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 R207172899GR205576" \$185,847 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "133286-5112927" \$192,176 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "5R25GM111565-02" \$194,994 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "17-A1-00-007405-01; PROJECT # 109740" \$246,677 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8	"S-001363"		\$63,750	\$25,248,057	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"554207" \$75,500 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "GET-20-20001" \$81,292 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1R15GM129771-01" \$118,547 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 \$120,727 \$25,248,057 N/A "A003475" \$124,279 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "CON013283" \$125,712 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 R107185(CON80001879)" \$145,687 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 R207172899GR205576" \$185,847 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "133286-5112927" \$192,176 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "5R25GM111565-02" \$194,994 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "17-A1-00-007405-01; PROJECT # 109740" \$246,677 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8							
"GET-20-20001" \$81,292 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1R15GM129771-01" \$118,547 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 \$120,727 \$25,248,057 N/A "A003475" \$124,279 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "CON013283" \$125,712 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 R107185(CON80001879)" \$145,687 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 RWD7772899GR205576" \$185,847 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "133286-5112927" \$192,176 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "57825GM111565-02" \$194,994 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "17-A1-00-007405-01; PROJECT # 109740" \$246,677 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8	"1R15GM140472-01"		\$69,699	\$25,248,057	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"GET-20-20001" \$81,292 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "1R15GM129771-01" \$118,547 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 \$120,727 \$25,248,057 N/A "A003475" \$124,279 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "CON013283" \$125,712 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 R107185(CON80001879)" \$145,687 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 RWD7772899GR205576" \$185,847 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "133286-5112927" \$192,176 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "57825GM111565-02" \$194,994 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "17-A1-00-007405-01; PROJECT # 109740" \$246,677 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8							
"1R15GM129771-01" \$118,547 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 \$120,727 \$25,248,057 N/A "A003475" \$124,279 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 \$125,712 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 \$125,712 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 \$107185(CON80001879)" \$145,687 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 \$107185(CON80001879)" \$185,847 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "133286-5112927" \$192,176 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "5825GM111565-02" \$194,994 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "17-A1-00-007405-01; PROJECT # 109740" \$246,677 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8	"554207"		\$75,500	\$25,248,057	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
\$120,727 \$25,248,057 N/A "A003475" \$124,279 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "CON013283" \$125,712 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 R107185(CON80001879)" \$145,687 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 AWD7772899GR205576" \$185,847 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "133286-5112927" \$192,176 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "5R25GM111565-02" \$194,994 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "17-A1-00-007405-01; PROJECT # 109740" \$246,677 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8	"GET-20-20001"		\$81,292	\$25,248,057	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
\$120,727 \$25,248,057 N/A "A003475" \$124,279 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "CON013283" \$125,712 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 R107185(CON80001879)" \$145,687 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 WD7772899GR205576" \$185,847 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "133286-5112927" \$192,176 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "5R25GM111565-02" \$194,994 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "17-A1-00-007405-01; PROJECT # 109740" \$246,677 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8							
\$120,727 \$25,248,057 N/A "A003475" \$124,279 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "CON013283" \$125,712 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 R107185(CON80001879)" \$145,687 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 AWD7772899GR205576" \$185,847 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "133286-5112927" \$192,176 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "5R25GM111565-02" \$194,994 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "17-A1-00-007405-01; PROJECT # 109740" \$246,677 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8	"1R15GM129771-01"		\$118 547	\$25 248 057	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"A003475" \$124,279 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "CON013283" \$125,712 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 R107185(CON80001879)" \$145,687 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 AWD7772899GR205576" \$185,847 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "133286-5112927" \$192,176 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "5R25GM111565-02" \$194,994 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "17-A1-00-007405-01; PROJECT # 109740" \$246,677 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8	11120111123771 01					ψ1)233)331)3 <i>1</i>	
"CON013283" \$125,712 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 R107185(CON80001879)" \$145,687 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 WD7772899GR205576" \$185,847 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "133286-5112927" \$192,176 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "5R25GM111565-02" \$194,994 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "17-A1-00-007405-01; PROJECT # 109740" \$246,677 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8	"A003475"				•	\$1,233,831,97	
\$185,847 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "133286-5112927" \$192,176 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "5825GM111565-02" \$194,994 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "17-A1-00-007405-01; PROJECT # 109740" \$246,677 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "17-A1-00-007405-01; "17-A1-00						\$1,233,831,97	
\$\text{AWD7772899GR205576}" \q							
"133286-5112927" \$192,176 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "5R25GM111565-02" \$194,994 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "17-A1-00-007405-01; PROJECT # 109740" \$246,677 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8	R107185(CON80001879)"		\$145,687	\$25,248,057	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"5R25GM111565-02" \$194,994 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8 "17-A1-00-007405-01; PROJECT # 109740" \$246,677 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8	WD7772899GR205576"		\$185,847	\$25,248,057	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"17-A1-00-007405-01; PROJECT # 109740" \$246,677 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8	"133286-5112927"		\$192,176	\$25,248,057	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
"17-A1-00-007405-01; PROJECT # 109740" \$246,677 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8							
PROJECT # 109740" \$246,677 \$25,248,057 RESEARCH AND DEVELOPMENT \$1,233,8	"5R25GM111565-02"		\$194,994	\$25,248,057	RESEARCH AND DEVELOPMENT	\$1,233,831,9	
##F000033CE### #\$200.3CC #\$25.340.0EZ BECEARCULAND DEVELOR: \$200.3CC			· · ·			\$1,233,831,9	
43UUUU3503 \$3UU,300 \$25,248,U5/ KESEAKCH AND DEVELOPMENT \$1,233,8	"4500003365"		\$300,366	\$25,248,057	RESEARCH AND DEVELOPMENT	\$1,233,831,97	

SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS FOR THE FISCAL YEAR ENDED JUNE 30, 2021

Fodoval Assessment (Processor Title	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title BIOMEDICAL RESEARCH AND RESEARCH TRAINING	Number 93.859	(Optional)	Entity JOHNS HOPKINS UNIVERSITY
IOMEDICAL RESEARCH AND RESEARCH TRAINING IOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859		JUHNS HUPKINS UNIVERSITY
IOWEDICAL RESEARCH AND RESEARCH TRAINING	93.639		UNIVERSITY OF MARYLAND,
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865		BALTIMORE COUNTY
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMORAL RESEARCH	93.865		UNIVERSITY OF PITTSBURGH
CHILD HEALTH AND HOMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865		UNIVERSITY OF CONNECTICUT
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865		UNIVERSITY OF MICHIGAN
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865		MEDICAL UNIVERSITY OF SOUTH CAROLINA
			GEORGIA SOUTHERN UNIVERSIT RESEARCH AND SERVICE
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865		FOUNDATION, INC.
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865		PENNINGTON BIOMEDICAL RESEARCH CENTER
			UNIVERSITY OF TEXAS
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865		SOUTHWESTERN MEDICAL CENT
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865		UNIVERSITY OF ILLINOIS
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865		YALE UNIVERSITY
			KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865		FOUNDATION
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865		UNIVERSITY OF PITTSBURGH
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865		YALE UNIVERSITY
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865		UNIVERSITY OF ILLINOIS
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865		CLEMSON UNIVERSITY
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865		UNIVERSITY OF PITTSBURGH
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865		UNIVERSITY OF FLORIDA
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865		NORTHEASTERN UNIVERSITY
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865		NORTHWESTERN UNIVERSITY KENNESAW STATE UNIVERSITY
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865		RESEARCH AND SERVICE FOUNDATION
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865		GEORGE WASHINGTON UNIVERS
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865		UNIVERSITY OF CONNECTICUT
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865		YALE UNIVERSITY
ILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865		
AGING RESEARCH	93.866		EMORY UNIVERSITY KAISER FOUNDATION RESEARC
AGING RESEARCH	93.866		INSTITUTE
			UNIVERSITY OF SOUTHERN
AGING RESEARCH	93.866		CALIFORNIA
AGING RESEARCH	93.866		WEILL CORNELL MEDICINE
AGING RESEARCH	93.866		CLOUD MUSTANG
AGING RESEARCH	93.866		EMORY UNIVERSITY KAISER FOUNDATION RESEARC
AGING RESEARCH	93.866		INSTITUTE
AGING RESEARCH	93.866		FLORIDA STATE UNIVERSITY
AGING RESEARCH	93.866		EMORY UNIVERSITY
AGING RESEARCH	93.866		UNIVERSITY OF ARIZONA
AGING RESEARCH	93.866		ARIZONA STATE UNIVERSITY
AGING RESEARCH	93.866		UNIVERSITY OF MINNESOTA
AGING RESEARCH	93.866		GEROLOGIX, INC.
			KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE
AGING RESEARCH	93.866		FOUNDATION
AGING RESEARCH	93.866		UNIVERSITY OF NORTH CAROLII

State of Georgia

Identifying Number Assigned By Funder	Total Amount		Federal		
Pass-Through	Provided to	Federal Expenditures	Program Total	Cluster	Cluster
"SUBAWARD 2004422271"	Sub-Recipients	\$302,864	\$25,248,057	Name RESEARCH AND DEVELOPMENT	Total \$1,233,831,971
30BAWAND 2004422271	\$1,608,248	\$22,594,658	\$25,248,057	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	+ -,,	¥==,55 1,555	ψ23)2 .0,03 <i>1</i>		+ -///
"SUBAWARD F218822-3"		\$146	\$9,315,935	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"0048860 1268736"		\$321	\$9,315,935	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CON012970"		\$8,045	\$9,315,935	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON013498"		\$9,590	\$9,315,935	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"CON010470"		\$10,004	\$9,315,935	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"63828383-44"		\$11,302	\$9,315,935	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"SUB NO. 2018098AU-01"		\$13,705	\$9,315,935	RESEARCH AND DEVELOPMENT	\$1,233,831,971
		\$13,703	<i>\$9,</i> 313,933	RESEARCH AIND DEVELOPINEINT	Ş1,233,031, 3 71
"GMO190806PO0000001829		410.100	40.015.00=	DESCRIPCIO AND DESCRIPCIO	ć4 200 004
		\$18,129	\$9,315,935	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"088509-17422"		\$22,284	\$9,315,935	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON013927"		\$22,567	\$9,315,935	RESEARCH AND DEVELOPMENT	\$1,233,831,97.
"1R15HD102957-01"		\$25,093	\$9,315,935	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"AWD000004431329701"		\$26,845	\$9,315,935	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"GR101888 (CON-800011"		\$28,765	\$9,315,935	RESEARCH AND DEVELOPMENT	\$1,233,831,97.
"18095"		\$33,322	\$9,315,935	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON012385"		\$34,485	\$9,315,935	RESEARCH AND DEVELOPMENT	\$1,233,831,97
'CNVA00048860(126873-9)"		\$50,050	\$9,315,935	RESEARCH AND DEVELOPMENT	\$1,233,831,97.
"UFDSP00011586"		\$60,318	\$9,315,935	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"50063478050"		\$60,676	\$9,315,935	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"PEND 6/1		7	+ -,,		
SP0042891PROJ001"		\$61,762	\$9,315,935	RESEARCH AND DEVELOPMENT	\$1,233,831,971
"7R01HD087411-03"		\$104,388	\$9,315,935	N/A	\$0
"001007005"		4405.000	40.045.005	2505 1201 1112 251/51 221 551/51	44 000 004 07
"CON007696" "CON011175"		\$105,998	\$9,315,935	RESEARCH AND DEVELOPMENT	\$1,233,831,973
"PEND5/2021		\$182,164	\$9,315,935	RESEARCH AND DEVELOPMENT	\$1,233,831,97.
GR101488CON800"		\$221,402	\$9,315,935	RESEARCH AND DEVELOPMENT	\$1,233,831,97
GN101488CC/V800	\$2,181,599	\$8,204,574	\$9,315,935	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A007350"	ŲZ,101,333	\$3	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON013152"		\$792	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"SUBAWARD 117946135" "ADV PROJECT- SUB		\$1,083	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97
W/WCM"		\$7,336	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"1R43AG06512401S1"		\$9,130	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"A054728"		\$13,533	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON014906"		\$17,795	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"R000002734"		\$21,528	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97.
"A338984"		\$27,421	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"PO 486746"		\$33,351	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"ASUB00000294"		\$35,965	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON011031"		\$39,157	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"1 R43 AG063508-01A1"		\$49,052	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"1R15AG059210-01A1"		\$52,038	\$12,958,619	N/A	\$0
"5118967"		\$55,584	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97
3110307		753,304	712,930,019	NESEANCH AND DEVELOPMENT	71,233,031,97.

SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS FOR THE FISCAL YEAR ENDED JUNE 30, 2021

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
AGING RESEARCH	93.866		ADVANCED MEDICAL ELECTRONICS
AGING RESEARCH	93.866		STANFORD UNIVERSITY
			OREGON HEALTH AND SCIENCE
AGING RESEARCH	93.866		UNIVERSITY
AGING RESEARCH	93.866		PURDUE UNIVERSITY
AGING RESEARCH	93.866		JOHNS HOPKINS UNIVERSITY
AGING RESEARCH	93.866		OREGON HEALTH AND SCIENCE UNIVERSITY
AGING RESEARCH	93.866		EMORY UNIVERSITY
			MEDICAL UNIVERSITY OF SOUTH
AGING RESEARCH	93.866		CAROLINA
AGING RESEARCH	93.866		UNIVERSITY OF NORTH CAROLINA
AGING RESEARCH	93.866		SG ENDOCRINE RESEARCH, LLC
AGING RESEARCH	93.866		VANDERBILT UNIVERSITY
AGING RESEARCH	93.866		WAKE FOREST UNIVERSITY
AGING RESEARCH	93.866		UNIVERSITY OF MICHIGAN
AGING RESEARCH	93.866		MAYO CLINIC, ROCHESTER
AGING RESEARCH	93.866		UNIVERSITY OF ARIZONA
			APPLIED UNIVERSAL DYNAMICS
AGING RESEARCH	93.866		CORPORATION
AGING RESEARCH	93.866		
VISION RESEARCH	93.867		EMORY UNIVERSITY
VISION RESEARCH	93.867		NORTHWESTERN UNIVERSITY
VISION RESEARCH	93.867		EMORY UNIVERSITY
VISION RESEARCH	93.867		EMORY UNIVERSITY
VISION RESEARCH	93.867		UNIVERSITY OF TEXAS AT AUSTIN
VISION RESEARCH	93.867		EMORY UNIVERSITY
VISION RESEARCH	93.867		EMORY UNIVERSITY
VISION RESEARCH	93.867		EMORY UNIVERSITY
VISION RESEARCH	93.867		EMORY UNIVERSITY
VISION RESEARCH VISION RESEARCH	93.867 93.867		WAKE FOREST UNIVERSITY EMORY UNIVERSITY
VISION RESEARCH	93.867		EIVIONT OIVIVENSITT
MATERNAL, INFANT AND EARLY CHILDHOOD HOME VISITING GRANT	93.870		
ANTIMICROBIAL RESISTANCE SURVEILLANCE IN RETAIL FOOD SPECIMENS	93.876		
AUTISM COLLABORATION, ACCOUNTABILITY, RESEARCH, EDUCATION, AND			
SUPPORT	93.877		
MEDICAL LIDDARY ACCICTANCE	02.070		UNIVERSITY OF MARYLAND,
MEDICAL LIBRARY ASSISTANCE	93.879		BALTIMORE COUNTY UNIVERSITY OF MARYLAND,
MEDICAL LIBRARY ASSISTANCE	93.879		BALTIMORE COUNTY
MEDICAL LIBRARY ASSISTANCE	93.879		BALTIMONE COUNTY
GRANTS FOR PRIMARY CARE TRAINING AND ENHANCEMENT	93.884		
COVID - 19 - NATIONAL BIOTERRORISM HOSPITAL PREPAREDNESS PROGRAM	93.889	COVID - 19	
NATIONAL BIOTERRORISM HOSPITAL PREPAREDNESS PROGRAM	93.889		
CANCER PREVENTION AND CONTROL PROGRAMS FOR STATE, TERRITORIAL AND TRIBAL ORGANIZATIONS	93.898		
	-5.556		
RURAL HEALTH CARE SERVICES OUTREACH, RURAL HEALTH NETWORK			
DEVELOPMENT AND SMALL HEALTH CARE PROVIDER QUALITY IMPROVEMENT	93.912		
GRANTS TO STATES FOR OPERATION OF STATE OFFICES OF RURAL HEALTH	93.913		
			DIGUAGO DE COMPENSANTE
LULY CARE FORMULA CRANTS	02.017		RICHMOND COUNTY HEALTH
HIV CARE FORMULA GRANTS	93.917		DEPARTMENT
HIV CARE FORMULA GRANTS	93.917		RICHMOND COUNTY HEALTH DEPARTMENT
COVID - 19 - HIV CARE FORMULA GRANTS	93.917	COVID - 19	PEI AIVINIENI
	33.317	00.10 15	

State of Georgia

ldentifying Number Assigned By Funder	Total Amount		Federal			
Pass-Through Entity	Provided to Sub-Recipients	Federal Expenditures	Program Total	Cluster Name	Cluster Total	
"AME17ROBOTASSIST21"		\$60.791	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"CON013907"		\$70,782	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"SUB 1015875 AUGUSTA"		\$79,057	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"11000893-005"		\$84,991	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"2004837233"		\$96,631	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"1007456UGRF"		\$100,499	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"CON012483"		\$124,427	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"SUB NO. A21-0028-S001"		\$134,266	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"#5111414"		\$152,818	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"1R41AG069539-01"		\$156,962	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"7RF1AG060754-02"		\$194,477	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"RAG060754A SUB"		\$209,351	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"SUBK00008360"		\$211,018	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
30 BK00000300		7211,010	\$12,550,015	RESEARCH AND DEVELOT WENT	\$1,233,631,37	
"GEO-233617/PO#67304962"		\$276,967	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"420569"		\$336,094	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"RAUDC0000971401"		\$426,290	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
	\$766,053	\$9,879,430	\$12,958,619	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"A123128"		-\$13,381	\$9,076,025	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"SP0028943-PROJ0007598"		\$1,712	\$9,076,025	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"CON013900"		\$12,784	\$9,076,025	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"A332834"		\$17,924	\$9,076,025	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"UTA20-000161"		\$25,292	\$9,076,025	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"A471296"		\$30,238	\$9,076,025	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"A332857"		\$50,265	\$9,076,025	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"A473306"		\$62,913	\$9,076,025	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"CON009883"		\$76,989	\$9,076,025	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"SUB NO.100000-550102"		\$113,370	\$9,076,025	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"#A043837"		\$114,541	\$9,076,025	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
	\$208,067	\$8,583,378	\$9,076,025	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
		\$7,105,711	\$7,105,711	N/A	Ç	
		\$3,860	\$3,860	N/A	Ş	
		\$16,678	\$16,678	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"SUBAWARD NO. 1600679"		\$9,603	\$74,511	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
"SUBAWARD 1600679"		\$16,808	\$74,511	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
	\$15,412	\$48,100	\$74,511	RESEARCH AND DEVELOPMENT	\$1,233,831,97	
		\$120,457	\$120,457	N/A	\$	
		\$3,829,605	\$11,419,544	N/A	Ş	
		\$7,589,939	\$11,419,544	N/A	Ş	
		\$5,497,640	\$5,497,640	N/A	Ş	
		Ţ-, ·-, jō ·o	<i>\$3,.37,</i> 040	···		
	\$253,381	\$464,421	\$464,421	N/A	Ç	
		\$167,024	\$167,024	N/A	Ş	
"EMERGING COMMUNITIES						
PROJECT 440"		\$4,771	\$70,796,339	N/A	\$1	
"RYAN WHITE PART B PROGRAM"		\$30,701	\$70,796,339	N/A	\$	
		\$1,049,346	\$70,796,339	N/A	ç	

SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS FOR THE FISCAL YEAR ENDED JUNE 30, 2021

	Federal	Additional Award	Name of Funder
	CFDA	Identification	Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
HIV CARE FORMULA GRANTS	93.917		
COVID - 19 - GRANTS TO PROVIDE OUTPATIENT EARLY INTERVENTION SERVICES	02.040	COV.IID 40	
NITH RESPECT TO HIV DISEASE	93.918	COVID - 19	
RYAN WHITE HIV/AIDS DENTAL REIMBURSEMENT AND COMMUNITY BASED DENTAL PARTNERSHIP GRANTS	93.924		
AKTINERSHIP GRANTS	95.924		GEORGIA SOUTHERN UNIVERSITY
SCHOLARSHIPS FOR HEALTH PROFESSIONS STUDENTS FROM			RESEARCH AND SERVICE
DISADVANTAGED BACKGROUNDS	93.925		FOUNDATION, INC.
IEALTHY START INITIATIVE	93.926		, ,
IV PREVENTION ACTIVITIES HEALTH DEPARTMENT BASED	93.940		
UMAN IMMUNODEFICIENCY VIRUS (HIV)/ACQUIRED IMMUNODEFICIENCY VIRUS			
YNDROME (AIDS) SURVEILLANCE	93.944		
OVID - 19 - COOPERATIVE AGREEMENTS TO SUPPORT STATE-BASED SAFE			
NOTHERHOOD AND INFANT HEALTH INITIATIVE PROGRAMS	93.946	COVID - 19	
OOPERATIVE AGREEMENTS TO SUPPORT STATE-BASED SAFE MOTHERHOOD AND			
NFANT HEALTH INITIATIVE PROGRAMS	93.946		
LOCK GRANTS FOR COMMUNITY MENTAL HEALTH SERVICES	93.958		
LOCK GRANTS FOR PREVENTION AND TREATMENT OF SUBSTANCE ABUSE	93.959		
CDC'S COLLABORATION WITH ACADEMIA TO STRENGTHEN PUBLIC			
HEALTH	93.967		EMORY UNIVERSITY
CDC'S COLLABORATION WITH ACADEMIA TO STRENGTHEN PUBLIC			
HEALTH	93.967		EMORY UNIVERSITY
PPHF GERIATRIC EDUCATION CENTERS	93.969		EMORY UNIVERSITY
PPHF GERIATRIC EDUCATION CENTERS	93.969		EMORY UNIVERSITY
PPHF GERIATRIC EDUCATION CENTERS	93.969		EMORY UNIVERSITY
PPHF GERIATRIC EDUCATION CENTERS	93.969		EMORY UNIVERSITY
PPHF GERIATRIC EDUCATION CENTERS	93.969		EMORY UNIVERSITY
EXUALLY TRANSMITTED DISEASES (STD) PREVENTION AND CONTROL GRANTS	93.977		ACCOCIATION OF BURLICUEALT
CEVITALLY TRANSMITTED DISEASES (STD) PROVIDER EDUCATION CRANTS	02.070		ASSOCIATION OF PUBLIC HEALTH
SEXUALLY TRANSMITTED DISEASES (STD) PROVIDER EDUCATION GRANTS	93.978		LABORATORIES
MENTAL HEALTH DISASTER ASSISTANCE AND EMERGENCY MENTAL HEALTH INTERNATIONAL RESEARCH AND RESEARCH TRAINING	93.982 <i>93.989</i>		EMORY UNIVERSITY
INTERNATIONAL RESEARCH AND RESEARCH TRAINING INTERNATIONAL RESEARCH AND RESEARCH TRAINING	93.989		EMORY UNIVERSITY
NTERNATIONAL RESEARCH AND RESEARCH TRAINING	93.989		EWICKT OWIVERSITT
ATIONAL HEALTH PROMOTION	93.990		
PREVENTIVE HEALTH AND HEALTH SERVICES BLOCK GRANT	93.991		EMORY UNIVERSITY
PREVENTIVE HEALTH AND HEALTH SERVICES BLOCK GRANT	93.991		EMORY UNIVERSITY
PREVENTIVE HEALTH AND HEALTH SERVICES BLOCK GRANT	93.991		EMORY UNIVERSITY
PREVENTIVE HEALTH AND HEALTH SERVICES BLOCK GRANT	93.991		DANA-FARBER CANCER INSTITUT
PREVENTIVE HEALTH AND HEALTH SERVICES BLOCK GRANT	93.991		EMORY UNIVERSITY
PREVENTIVE HEALTH AND HEALTH SERVICES BLOCK GRANT	93.991		NORTHWESTERN UNIVERSITY
PREVENTIVE HEALTH AND HEALTH SERVICES BLOCK GRANT	93.991		BOSTON CHILDREN'S HOSPITAL
PREVENTIVE HEALTH AND HEALTH SERVICES BLOCK GRANT	93.991		EMORY UNIVERSITY
PREVENTIVE HEALTH AND HEALTH SERVICES BLOCK GRANT	93.991		EMORY UNIVERSITY
PREVENTIVE HEALTH AND HEALTH SERVICES BLOCK GRANT	93.991		THRUST INTERACTIVE, INC.
PREVENTIVE HEALTH AND HEALTH SERVICES BLOCK GRANT	93.991		UNIVERSITY OF LOUISVILLE
PREVENTIVE HEALTH AND HEALTH SERVICES BLOCK GRANT	93.991		UNIVERSITY OF OREGON
REVENTIVE HEALTH AND HEALTH SERVICES BLOCK GRANT	93.991		
REVENTIVE HEALTH AND HEALTH SERVICES BLOCK GRANT	93.991		
MATERNAL AND CHILD HEALTH SERVICES BLOCK GRANT TO THE STATES	93.994		UNIVERSITY OF OKLAHOMA
NATERNAL AND CHILD HEALTH SERVICES BLOCK GRANT TO THE STATES	93.994		
SBIR - NITRIC OXIDE RELEASING ULTRA-SLIPPERY ANTIB	93.RD	75D3011P06553	INNOVETA BIOMEDICAL, LLC
RE-CLINICAL MODELS OF INFECTIOUS DISEASES - ALTER	93.RD	HHSN27200003	
			GEORGIA CENTER FOR ONCOLOG
TRIAL OF CARBOPLATIN AND PACLITAXEL VERSUS CARBOPL	93.RD	NSC#704865,IND#7921	RESEARCH AND EDUCATION, INC
			UNIVERSAL STABILIZATION
THERMOSTABLE LIVE ATTENUATED INFLUENZA VACCINE FOR	93.RD	95855S1	TECHNOLOGIES, INC.
			UNIVERSAL STABILIZATION
SBIR PHASE 1: ADJUVANT DEVELOPMENT FOR THERMOSTABL	93.RD	2722-S1	TECHNOLOGIES, INC.

State of Georgia

Identifying Number Assigned By Funder	Total Amount		Federal		
Pass-Through	Provided to	Federal	Program	Cluster	Cluster
Entity	Sub-Recipients	\$69,711,521	Total \$70,796,339	Name N/A	Total
		303,711,321	\$70,750,535	N/A	
		\$4,575,797	\$4,575,797	N/A	
		\$52,395	\$52,395	N/A	
"63828383-45"		\$1,310,043	\$1,310,043	STUDENT FINANCIAL ASSISTANCE	\$2,071,661,24
		\$1,310,000	\$1,310,000	N/A	
		\$16,417,751	\$16,417,751	N/A	
		\$796,028	\$796,028	N/A	
		-\$135,405	\$418,661	N/A	
		\$554,066	\$418,661	N/A	
	\$7,276,966	\$14,917,077	\$14,917,077	N/A	
	\$28,746,337	\$44,207,144	\$44,207,144	N/A	
"T674525"		\$62,871	\$128,136	RESEARCH AND DEVELOPMENT	\$1,233,831,9
'T807472 5P01AI125180- 02"		<i>\$65,265</i>	¢120 126	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"CON013256"		\$68	\$128,136 \$114,198	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"CON011765"		\$972	\$114,198	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"A278083"		\$10,448	\$114,198	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"CON013934"		\$10,780	\$114,198	N/A	
"CON013750"		\$91,930	\$114,198	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		\$3,278,994	\$3,278,994	N/A	
"30973"		\$17,583	\$17,583	N/A	
30373		\$1,013,586	\$1,013,586	N/A	
"T846281 / A019177"		\$19,273	\$3,905,450	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"CON013095"		\$28,708	\$3,905,450	RESEARCH AND DEVELOPMENT	\$1,233,831,9
	\$267,962	\$3,857,469	\$3,905,450	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		-\$41,823	-\$41,823	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"A171995"		-\$1,112	\$4,150,112	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"A230010"		\$2,547	\$4,150,112	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"141773"		\$7,520	\$4,150,112	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"1242101"		\$11,156	\$4,150,112	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"A251903"		\$23,727	\$4,150,112	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"60047538 GIT"		\$24,631	\$4,150,112	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"GENFD0001493133"		\$42,637	\$4,150,112	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"T783523" "T846705"		\$62,306	\$4,150,112	RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT	\$1,233,831,9
"9R44GM130282-02"		\$62,801 \$72,387	\$4,150,112 \$4,150,112	RESEARCH AND DEVELOPMENT	\$1,233,831,9 \$1,233,831,9
"ULRF 17-0029-01"		\$126,516	\$4,150,112	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"215830A"		\$258,650	\$4,150,112	RESEARCH AND DEVELOPMENT	\$1,233,831,9
	\$82,258	\$1,252,790	\$4,150,112	RESEARCH AND DEVELOPMENT	\$1,233,831,
		\$2,203,556	\$4,150,112	N/A	. , , ,
"52313"		\$34,396	\$16,975,907	RESEARCH AND DEVELOPMENT	\$1,233,831,9
#75D2044B25555#		\$16,941,511	\$16,975,907	N/A	64 222 25
"75D3011P06553"		-\$650	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		-\$229	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,
"GOG #218"		\$151	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"95855S1"		\$1,170	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"2722-S1"		\$5,041	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,

SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS FOR THE FISCAL YEAR ENDED JUNE 30, 2021

	Federal CFDA	Additional Award Identification	Name of Funder Pass-Through
Federal Awarding Agency/Program Title	Number	(Optional)	Entity
			GEORGIA SOUTHERN UNIVERSITY RESEARCH AND SERVICE
MISSILE DEFENSE AGENCY PHASE 1 OPTION	93.RD	39G1861	FOUNDATION, INC.
			NORC AT THE UNIVERSITY OF
PROFESSIONAL SERVICES AGREEMENT WITH NORC	93.RD	75P00119F37005	CHICAGO
ALASKA INBRE BIOINFORMATICS WORKSHOPS AND SUPPORT	93.RD	P0550535	UNIVERSITY OF ALASKA JANSSEN RESEARCH &
PROTOCOL 63623872FLZ3001	93.RD	HHSO100201500014C	DEVELOPMENT, LLC
			ST. JUDE CHILDREN'S RESEARCH
INNOVATION GATEWAY ST JUDE: NIAID CENTERS OF EXCEL	93.RD	112187041-7839847	HOSPITAL
PA: 20IPA2001808	93.RD	SP00014453	
SBIR: CREATING ANTIBODIES TO ENABLE THE STUDY OF M	93.RD	75N93019C00048	GLYCOSCIENTIFIC, LLC
	00.00	0000750	RESEARCH AND SERVICE
HIGH TEMP FRACTURE MECHANICS	93.RD	39G0768	FOUNDATION, INC.
STTR PHASE I: EVALUATING THE SOFTWARE NAVIGATION S	93.RD	UGA20190401	3T TECHNOLOGIES, LLC
THE NATIONAL NURSING HOME COVID ACTION NETWORK	93.RD	SP00014522	ACADEMYHEALTH
		COVID-19,	
COVID-19; MOLECULAR EPIDEMIOLOGY AND TRANSMISSION	93.RD	75D30121C10133	
SEXUALLY TRANSMITTED DISEASE TESTING IN MEDICAID POPULAT	93.RD	SP00014584	
PA: INTIMATE PARTNER VIOLENCE (IPV) MEASUREMENT VALIDAT	93.RD	SP00014400	
THE HARVEST INITIATIVE: ON FARM ENVIRONMENTAL SAMP	93.RD	75F40119P10265	
SALMONELLA SOURCE ATTRIBUTION BY MACHINE LEARNING	93.RD	75F40120C00187	
COVID -19, IPA	93.RD	COVID-19, SP00014677	EMORY UNIVERSITY
CENTER FOR INFLUENZA DISEASE AND EMERGENCE RESEARC	93.RD	75N93021C00018	
SBIR PHASE II: NITRIC OXIDE RELEASING ULTRA-SLIPPE	93.RD	75D30120C09815	INNOVETA BIOMEDICAL, LLC
CEIRS DISTRIBUTED INFLUENZA GENOMIC SEQUENCING (DI	93.RD	2004518271	JOHNS HOPKINS UNIVERSITY
SOUTHEAST REGIONAL COLLABORATIVE ACCESS TEAM (SER-	93.RD	P18001	LEIDOS, INC.
PREVALENCE OF AND RISK FACTORS FOR COMMUNITY-ASSOC	93.RD	75D30120C09496	ELIDOS, INC.
P20 UGA WILD BIRDS NATURAL HISTORY	93.RD	1119780000000000	ST. JUDE CHILDREN'S RESEARCH HOSPITAL
SERCAT YEAR 20 LEIDOS-NIH MEMBERSHIP	93.RD	MCLWLO354	LEIDOS, INC.
PRE-CLINICAL MODELS OF INFECTIOUS DISEASES: TASK C	93.RD	HHSN2722017000351	ELIDOS, IIVC.
INTEGRATED INFORMATICS RESOURCES FOR EUKARYOTIC MI		43205	LINUVERSITY OF DENINSYLVANIA
	93.RD	75N93019C00052	UNIVERSITY OF PENNSYLVANIA
CENTER FOR INFLUENZA VACCINE RESEARCH FOR HIGH RIS	93.RD	751193019C00032	KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE
WELCOMING INCLUSIVE GROWTH TO SOAR	93.U34	A20-0020-01 WINGS	FOUNDATION
OTAL DEPARTMENT OF HEALTH AND HUMAN SERVICES	35.65	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ссидинен
CORPORATION FOR NATIONAL AND COMMUNITY SERVICE			
TATE COMMISSIONIS	04.002		
STATE COMMISSIONS	94.003		// ADCT - DT 50
AMERICORPS	94.006		JUMPSTART FOR YOUNG CHILDREN, INC.
AMERICORDS	94.006		JUMPSTART FOR YOUNG
AMERICORPS	94.006		CHILDREN, INC.
AMERICORPS	94.006		JUMPSTART FOR YOUNG CHILDREN, INC.
44450400000			JUMPSTART FOR YOUNG
AMERICORPS	94.006		CHILDREN, INC.
AMERICORPS	94.006		
	94.006		
	94.009		
RAINING AND TECHNICAL ASSISTANCE			
AMERICORPS RAINING AND TECHNICAL ASSISTANCE /OLUNTEERS IN SERVICE TO AMERICA	94.013		GEORGIA SOUTHERN UNIVERSIT
RAINING AND TECHNICAL ASSISTANCE			GEORGIA SOUTHERN UNIVERSIT RESEARCH AND SERVICE
RAINING AND TECHNICAL ASSISTANCE			
RAINING AND TECHNICAL ASSISTANCE /OLUNTEERS IN SERVICE TO AMERICA	94.013		RESEARCH AND SERVICE

State of Georgia

Identifying Number Assigned By Funder	Total Amount		Federal		
Pass-Through	Provided to	Federal	Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
"63828383-50"		\$6,385	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"HHSP2332015000231"		\$7,922	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"P0550535"		\$9,789	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,97
A PHASE 3 RANDOMIZED"		\$19,309	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"112187041-7839847"		\$20,636	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$21,928	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"75N93019C00048"		\$23,500	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"63828383-49"		\$25,930	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"UGA20190401"		\$27,805	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON013726"		\$34,534	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		\$34,903	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		\$45,561	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		\$49,999	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		\$50,715	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		\$70,640	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"CON014545"		\$72,907	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		\$74,964	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"75D30120C09815"		\$78,865	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"2004518271"		\$146,761	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"P18001"		\$165,154	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,9
		\$232,039	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"1120840707930780"		\$330,110	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"MCLWLO354"		\$395,997	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,9
	\$237,151	\$1,125,084	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"43205"		\$1,500,535	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,9
	\$5,595,874	\$12,238,651	\$16,816,106	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"A20-0020-001"		\$16,024	\$16,024	N/A	
	\$478,082,369	\$12,005,674,508			
		\$317,543	\$317,543	N/A	
"CON004605"		-\$1 <i>62</i>	\$3,020,131	N/A	
#CON007225#		ć42		N/A	
"CON007335"		-\$42	\$3,020,131	N/A	
"CON012548"		\$11,592	\$3,020,131	N/A	
"CON013835"	\$564	\$58,588	\$3,020,131	N/A	
		\$368,593	\$3,020,131	RESEARCH AND DEVELOPMENT	\$1,233,831,9
	\$2,581,562	\$2,581,562	\$3,020,131	N/A	
		\$63,138	\$63,138	N/A	
		\$26,105	\$26,105	RESEARCH AND DEVELOPMENT	\$1,233,831,
				FOSTER GRANDPARENT/SENIOR	
"63828383-46"		\$174,086	\$174,086	COMPANION CLUSTER	\$174,0
	\$26,292	\$84,822	\$84,822	RESEARCH AND DEVELOPMENT	\$1,233,831,9
	\$2,608,418	\$3,685,825			
-	, =,===,	, -,,			

SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS FOR THE FISCAL YEAR ENDED JUNE 30, 2021

Federal Awarding Agency/Program Title	Federal CFDA Number	Additional Award Identification (Optional)	Name of Funder Pass-Through Entity
XECUTIVE OFFICE OF THE PRESIDENT		(-)	.,
HIGH INTENSITY DRUG TRAFFICKING AREAS PROGRAM	95.001		UNIVERSITY OF TEXAS AT DALLAS
HIGH INTENSITY DRUG TRAFFICKING AREAS PROGRAM	95.001		CITY OF ATLANTA ATLANTA-CAROLINAS HIDTA
HIGH INTENSITY DRUG TRAFFICKING AREAS PROGRAM	95.001		PROGRAM
IIGH INTENSITY DRUG TRAFFICKING AREAS PROGRAM OTAL EXECUTIVE OFFICE OF THE PRESIDENT	95.001		
OCIAL SECURITY ADMINISTRATION			
OCIAL SECURITY DISABILITY INSURANCE	96.001		
OCIAL SECURITY - WORK INCENTIVES PLANNING AND ASSISTANCE PROGRAM	96.008		
OTAL SOCIAL SECURITY ADMINISTRATION	30.000		
PEPARTMENT OF HOMELAND SECURITY			
			SCIENTIFIC RESEARCH
STATE AND LOCAL HOMELAND SECURITY NATIONAL TRAINING PROGRAM	97.005		CORPORATION UNIVERSITY OF ILLINOIS AT
STATE AND LOCAL HOMELAND SECURITY NATIONAL TRAINING PROGRAM	97.005		URBANA-CHAMPAIGN
TATE AND LOCAL HOMELAND SECURITY NATIONAL TRAINING PROGRAM	97.005		OND/WOT CIT/WIN / WOT
STATE AND LOCAL HOMELAND SECURITY NATIONAL TRAINING PROGRAM	97.005		ZETA ASSOCIATES, INC.
ION-PROFIT SECURITY PROGRAM	97.008		
OATING SAFETY FINANCIAL ASSISTANCE	97.012		
OMMUNITY ASSISTANCE PROGRAM STATE SUPPORT SERVICES ELEMENT (CAP-	07.022		
SSE) RISIS COUNSELING	97.023 97.032		
NISIS COUNSELING	37.032		
ISASTER GRANTS - PUBLIC ASSISTANCE (PRESIDENTIALLY DECLARED DISASTERS)	97.036		
OVID - 19 - DISASTER GRANTS - PUBLIC ASSISTANCE (PRESIDENTIALLY DECLARED			
oisasters) 1	97.036	COVID - 19	
AZARD MITIGATION GRANT	97.039		
IATIONAL DAM SAFETY PROGRAM	97.041		
MERGENCY MANAGEMENT PERFORMANCE GRANTS TATE FIRE TRAINING SYSTEMS GRANTS	97.042		
SSISTANCE TO FIREFIGHTERS GRANT	97.043 97.044		
OOPERATING TECHNICAL PARTNERS	97.045		
RIC: BUILDING RESILIENT INFRASTRUCTURE AND COMMUNITIES	97.043		
OVID - 19 - PRESIDENTIAL DECLARED DISASTER ASSISTANCE TO INDIVIDUALS AND	37.047		
IOUSEHOLDS - OTHER NEEDS	97.050	COVID - 19	
ORT SECURITY GRANT PROGRAM	97.056	00112 13	
CENTERS FOR HOMELAND SECURITY	97.061		ARIZONA STATE UNIVERSITY
CENTERS FOR HOMELAND SECURITY	97.061		IEM
CENTERS FOR HOMELAND SECURITY	97.061		UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN
CENTERS FOR HOMELAND SECURITY CENTERS FOR HOMELAND SECURITY	97.061		GEORGE MASON UNIVERSITY
CENTERS FOR HOMELAND SECURITY CENTERS FOR HOMELAND SECURITY	97.061		ARIZONA STATE UNIVERSITY
CElic , G Hollied W.D. SECONTT	37.001		GEORGIA SOUTHERN UNIVERSIT RESEARCH AND SERVICE
HOMELAND SECURITY GRANT PROGRAM	97.067		FOUNDATION, INC.
TIONED WED SECOND TOWNS THOUSAND			KENNESAW/ STATE HNIMED SITV
HOMELAND SECURITY GRANT PROGRAM	97.067		KENNESAW STATE UNIVERSITY RESEARCH AND SERVICE FOUNDATION

The accompanying notes are an integral part of this schedule.

^{1 -} COVID-19 non-monetary amounts are unaudited.

State of Georgia

Identifying Number Assigned By Funder Pass-Through	Total Amount Provided to	Federal	Federal Program	Cluster	Cluster
Entity	Sub-Recipients	Expenditures	Total	Name	Total
"1806767"		\$2,714	\$142,874	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"G15GA003A"		\$33,485	\$142,874	N/A	\$
"30596"		\$36,898	\$142,874	N/A	\$
		\$69,777	\$142,874	N/A	,
		\$142,874			
		\$60,251,393	\$60,251,393	DISABILITY INSURANCE/SSI CLUSTER	\$60,251,39
		\$300,000	\$300,000	N/A	\$
	<u> </u>	\$60,551,393			
"SR20180956"		\$11,643	\$379,488	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"077083-16371"		\$39,640	\$379,488	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	\$11,670	\$81,177	\$379,488	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"173118LS-GTARC-01"		\$247,028	\$379,488	RESEARCH AND DEVELOPMENT	\$1,233,831,97
17311023 G17111C 01	\$659,455	\$659,455	\$659,455	N/A	<i>\$1,233,031,37</i>
		\$3,287,210	\$3,287,210	N/A	Ş
		¢250.022	¢250.022	N/A	,
		\$258,823 \$345,682	\$258,823 \$345,682	N/A N/A	<u> </u>
		\$343,00 <u>2</u>	73-7,002	14/11	•
		\$20,060	\$217,047,799	N/A	Ş
	\$77,162,754	\$217,027,739	\$217,047,799	N/A	Ş
	\$3,943,841	\$5,398,070	\$5,398,070	N/A	Ş
	40.044.050	\$31,156	\$31,156	N/A	Ç
	\$2,811,268	\$10,932,449	\$10,932,449	N/A	Ç
		\$4,800 \$96,812	\$4,800 \$96,812	N/A N/A	ç
		\$3,918,274	\$3,918,274	N/A	Ş
	\$245,044	\$301,971	\$301,971	N/A	Ş
		\$1,096,960,883	\$1,096,960,883	N/A	Ş
		\$494,428	\$494,428	N/A	Ş
"18-340"		-\$1,387	\$529,473	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"AGR 2013-002"		\$34,013	\$529,473	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"077083-17698"		\$57,277	\$529,473	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"CON014035"		\$206,298	\$529,473	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"ASUB00000286"		\$233,272	\$529,473	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"63828383-36"		\$920	\$8,479,214	N/A	\$
"EMW2020-SS-00089"	A	\$5,243	\$8,479,214	N/A	\$
	\$4,553,354	\$8,473,051	\$8,479,214	N/A	\$

SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS FOR THE FISCAL YEAR ENDED JUNE 30, 2021

Federal Awarding Agency/Program Title	Federal CFDA Number	Additional Award Identification (Optional)	Name of Funder Pass-Through Entity
HOMELAND SECURITY RESEARCH, DEVELOPMENT, TESTING, EVALUATION, AND			
DEMONSTRATION OF TECHNOLOGIES RELATED TO NUCLEAR THREAT DETECTION	97.077		
EARTHQUAKE CONSORTIUM	97.082		
HOMELAND SECURITY BIOWATCH PROGRAM	97.091		
FINANCIAL ASSISTANCE FOR TARGETED VIOLENCE AND TERRORISM	07.422		AMERICAN UNIVERSITY,
PREVENTION	97.132	EC 20224	WASHINGTON, D.C.
PRESEDENTIAL INAUGURATION	97.U35	FS 30331	
FEDERAL OVERTIME AGREEMENTS	97.U36	ICE AGREEMENTS	
TOTAL DEPARTMENT OF HOMELAND SECURITY			
U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT			
USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS	98.001		MICHIGAN STATE UNIVERSITY
USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS	98.001		MICHIGAN STATE UNIVERSITY
USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS	98.001		UNIVERSITY OF FLORIDA
USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS	98.001		UNIVERSITY OF ILLINOIS
USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS	98.001		UNIVERSITY OF FLORIDA
OSAID I ONLIGIN ASSISTANCE FOR PROGRAMIS OVERSEAS	98.001		DEVELOPMENT INNOVATIONS
USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS	98.001		GROUP
USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS	98.001		PURDUE UNIVERSITY
USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS	98.001		TUFTS UNIVERSITY
USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS	98.001		FHI 360
USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS	98.001		7711 300
JORDAN FISCAL REFORM II	98.RD	SP00010263	DAI GLOBAL, LLC
IMPROVING THE BANGLADESH PEANUT VALUE CHAIN	98.RD	J087203	ACDI/VOCA
IN ROVING THE DANGEADEST FEAROT VALUE CHAIN	30.ND	3007203	ECOLOGICAL WASTE COALITION O
ECOWASTE TECHNICAL ASSISTANCE GRANT	98.RD	REWCP0001150801	THE PHILIPPINES, INC.
ECOWNOTE FECHNICAL ASSISTANCE CHARACTER	30.112	11277 0001130001	1112 1 111211 1 11423, 1140.
			COOPERATIVE ASSISTANCE AND
HER TIME: A TIME USE STUDY OF WOMEN PARTICIPATING	98.RD	470	RELIEF EVERYWHERE (CARE)
TOTAL U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT	30,112	,,,	
MISCELLANEOUS			
VA ADMIN & REPORTING FEES	99.U37	11000111	
TOTAL MISCELLANEOUS			

State of Georgia

Identifying Number Assigned By Funder Pass-Through Entity	Total Amount Provided to Sub-Recipients	Federal Expenditures	Federal Program Total	Cluster Name	Cluster Total
	\$26,226	\$830,916	\$830,916	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	7-0/0	\$10,906	\$10,906	N/A	, -,,,,,,,,,,,,
		\$52,411	\$52,411	N/A	
CONO4443		ć7 F02	ć 7 502	DECEARCH AND DEVELOPMENT	64 222 024 07
"CON014442"		\$7,503	\$7,503	RESEARCH AND DEVELOPMENT	\$1,233,831,97
		\$88,683	\$88,683	N/A	9
		\$699	\$699	N/A	7
	\$89,413,612	\$1,350,117,105			
"RC102095"		-\$3,719	\$4,208,142	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"193900.312455.08"		\$3,872	\$4,208,142	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"UFDSP00011518"		\$6,107	\$4,208,142	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"7211218019"		\$14,910	\$4,208,142	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"UFDSP00012175"		\$48,886	\$4,208,142	RESEARCH AND DEVELOPMENT	\$1,233,831,97
,,,		4	4		4
"T3"		\$50,545	\$4,208,142	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"F0004868402088"		\$71,223	\$4,208,142	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"AIDOAAL1000006"		\$268,005	\$4,208,142	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"PO20000139"	44 504 540	\$985,244	\$4,208,142	RESEARCH AND DEVELOPMENT	\$1,233,831,97
CON000C33	\$1,531,542	\$2,763,069	\$4,208,142	RESEARCH AND DEVELOPMENT	\$1,233,831,9
"CON000623"		-\$25	\$151,751	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"J087203"		\$2,785	\$151,751	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"REWCP0001150801"		\$25,000	\$151,751	RESEARCH AND DEVELOPMENT	\$1,233,831,97
"470"	\$123,821	\$123,991	\$151,751	RESEARCH AND DEVELOPMENT	\$1,233,831,97
	4				
	\$1,655,363	\$4,359,893			
		\$6,112	\$6,112	N/A	:
		\$6,112			
	_	70,112			
	A	440.040.050.63			
	\$5,184,725,011	\$42,349,956,610			

NOTE 1. SIGNIFICANT ACCOUNTING POLICIES

The accompanying Schedule of Expenditures of Federal Awards (Schedule) is a supplementary schedule to the State's basic financial statements presented in the State of Georgia *Annual Comprehensive Financial Report (ACFR)* for the fiscal year ended June 30, 2021.

A. Basis of Presentation

The information in the Schedule is presented in accordance with Title 2 U.S. Code of Federal Regulations Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance). Because the Schedule presents only a selected portion of the operations of the State, it is not intended to and does not present the financial position, changes in net position, or cash flows of the State.

- 1. Federal Financial Assistance The Uniform Guidance defines federal financial assistance as assistance that non-federal entities receive or administer in the form of grants, cooperative agreements, non-cash contributions or donations of property (including donated surplus property), direct appropriations, food commodities, other financial assistance, loans, loan guarantees, interest subsidies, and insurance.
- 2. Assistance Listing Number (ALN) The Schedule presents total expenditures for each federal financial assistance program and the ALN (formerly Catalog of Federal Domestic Assistance (CFDA) Number) assigned to the program. For programs that have not been assigned an ALN number, the number shown in the Schedule is the federal agency's 2-digit prefix followed by "U" and a two digit number or by "RD" if the program is part of the Research and Development (R&D) cluster.
- 3. Cluster of Programs A grouping of closely related programs with different ALN numbers that share common compliance requirements is considered a cluster of programs. The Schedule presents the total federal awards expended for the R&D cluster, Student Financial Assistance cluster, and other clusters that are mandated in the most recent Federal Compliance Supplement.
- **4. Direct and Pass-through Federal Financial Assistance** The State receives federal financial assistance directly from federal awarding agencies or indirectly from pass-through entities. A pass-through entity (PTE) is a non-federal entity that provides a subaward to a subrecipient to carry out part of a federal program. For federal assistance that the State received as a subrecipient, the name of the PTE and the identifying number assigned by the PTE are identified in the Schedule.
- **5. Amount Provided to Subrecipients** The amount of federal assistance that the State provided to subrecipients under each federal program is presented in a separate column in the Schedule. A subrecipient is an entity that receives a subaward from a PTE to carry out part of a federal program.
- **6. Transactions Between State Organizations** When federal financial assistance is received by one State organization and passed through to another State organization, the federal financial assistance is reflected as expenditures in the Schedule by only the primary recipient (i.e., the State organization that received the federal assistance directly from the federal government). This method avoids the overstatement of federal financial assistance at the aggregate level.

T-- J:-- -

B. Basis of Accounting

The State's ACFR and this supplemental schedule are presented in accordance with generally accepted accounting principles, following the accrual or modified accrual basis of accounting, as appropriate for the fund structure. The basis of accounting used for each fund is described in Note 1 to the State's financial statements. Negative amounts shown in the Schedule represent adjustments or credits made in the normal course of business to amounts reported as expenditures in prior years.

NOTE 2. INDIRECT COST RATE

In addition to other procedures detailed in the Uniform Guidance, State organizations may elect to charge a de minimis cost rate of 10% of modified total direct costs which may be used indefinitely. There are nine State organizations within the State of Georgia Reporting Entity, as identified in Appendix "A," that have elected to use the 10% de minimis cost rate.

NOTE 3. REPORTING ENTITY

The Schedule includes all federal financial assistance programs administered by the State for the fiscal year ended June 30, 2021. Refer to Appendix "A" for a comprehensive listing of organizations that comprise the State of Georgia Reporting Entity.

NOTE 4. LOAN PROGRAMS

The State participates in various federal loan programs. The Schedule includes the value of new loans made or received during the fiscal year, the balance of loans from previous years for which the federal government imposes continuing compliance requirements, and any administrative cost allowances. For loans made to students of an Institution of Higher Education (IHE), where the IHE does not make the loans, the amounts in the Schedule only include the value of loans made during the fiscal year and are not included in the following table.

Outstanding balance of federal loans and loan guarantees:

ALN/ CFDA No.	Program Name	Ending Balance at June 30, 2021
10.766	Community Facilities Loans and Grants Cluster	\$71,575,828
84.038	Federal Perkins Loan Program - Federal Capital Contributions	16,805,129
93.264	Nurse Faculty Loan Program (NFLP)	2,268,346
93.342	Health Professions Student Loans, Including Primary Care Loans/Loans for Disadvantaged Students	47,876
93.364	Nursing Student Loans	602,293
Tota	\$91,299,472	

NOTE 5. NON-CASH ASSISTANCE

Although most federal financial assistance is in the form of cash assistance, the State participates in several programs that provide non-cash assistance through the State to eligible participants. The total value of federal financial non-cash assistance that the State reported for the fiscal year ended June 30, 2021 is presented in the table below.

Non-Cash Assistance:

ALN/ CFDA No.	Program Name	Non-Cash Value
10.178	Trade Mitigation Program Eligible Recipient Agency Operational Funds ¹	\$5,099,362
10.542	COVID - 19 - Pandemic EBT Food Benefits	290,539,859
10.551	Supplemental Nutrition Assistance Program ¹	2,886,737,193
10.551	COVID – 19 – Supplemental Nutrition Assistance Program	1,123,878,439
10.555	National School Lunch Program ¹	34,259,089
10.565	Commodity Supplemental Food Program ¹	749,381
10.569	Emergency Food Assistance Program (Food Commodities)	35,703,164
10.569	COVID – 19 – Emergency Food Assistance Program (Food Commodities)	20,194,702
39.003	Donation of Federal Surplus Personal Property	35,313,366
93.268	Immunization Cooperative Agreements ¹	161,932,265
97.036	COVID - 19 - Disaster Grants - Public Assistance (Presidentially Declared Disasters) ¹	38,899,381
Total Non-Cash Assistance		\$4,633,306,201

¹ The amount reported in the Schedule for this program includes both cash and non-cash assistance expenditures.

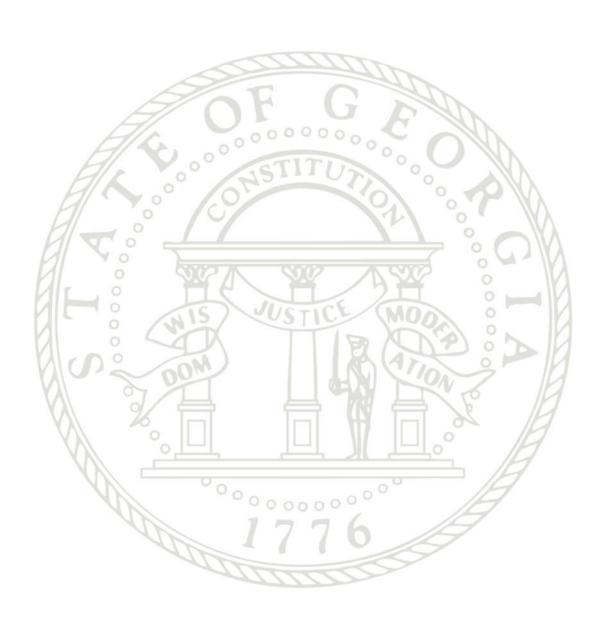
NOTE 6. UNEMPLOYMENT INSURANCE (UI) (ALN/CFDA No. 17.225)

The UI program serves workers who are unemployed through no fault of their own and are seeking reemployment. To receive benefits, claimants must be able to work, available for work, and actively seeking work. State unemployment insurance funds (State UI funds) must be deposited to the Unemployment Trust Fund (UTF) in the U.S. Treasury, primarily to be used to pay UI program benefits under the federally approved State unemployment law. Accordingly, expenditures of State and federal unemployment insurance funds (including federal administration amounts) are included in the total expenditures for the UI program reported in

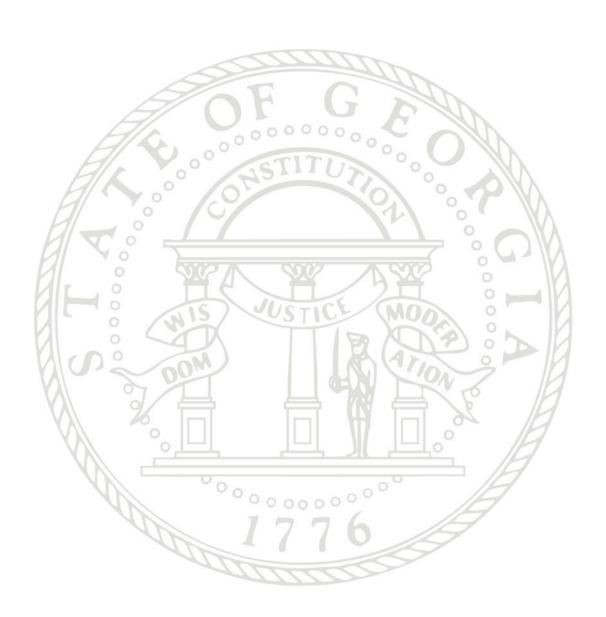
the Schedule. For the fiscal year ended June 30, 2021 the amounts are \$2,518,419,824, and \$82,896,315, respectively. Also, COVID-19 expenditures for federal unemployment insurance funds, as well as federal administration amounts, are included in the total expenditures for the COVID-19 UI program reported in the Schedule. The amount reported for the fiscal year ended June 30, 2021 is \$9,449,074,307.

NOTE 7. NOVEL CORONAVIRUS (COVID – 19)

Supplemental federal appropriations were approved through a variety emergency Federal Acts to assist in responding to the novel coronavirus (COVID-19) outbreak. These Federal Acts and supplemental guidance also contained requirements for compliance with existing Federal laws and added reporting requirements. A portion of the supplemental federal funding was provided to the State as both monetary and non-cash assistance, from numerous Federal Agencies through a variety of Federal programs. These supplemental funds are separately reported in the Schedule and applicable Notes to the SEFA schedule with the prefix "COVID-19". Additionally, ALN/CFDA 84.425 is reported under different sub-programs that are separately identified in the Schedule with alpha characters identified in the "Additional Award Identification (Optional)" column.



Corrective Action Plan for Current Year Findings







May 19, 2022

Mr. Greg S. Griffin, State Auditor Georgia Department of Audits and Accounts 270 Washington Street, S.W., Room 1-156 Atlanta, Georgia 30334-8400

Dear Mr. Griffin,

Enclosed with this letter is the State of Georgia's "Corrective Action Plan" (CAP) reporting in the Single Audit for fiscal year ending June 30, 2021. This CAP is compiled by the State Accounting Office (SAO) based on corrective action plans provided by the respective State Organization and is organized by finding type (financial statement and federal award), Federal Agency (if applicable), State Organization and finding number.

The State's CAP satisfies the requirements as detailed in Title 2 U.S. Code of Federal Regulations, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance), Subpart F, Section 511 – Audit findings follow-up.

If you have any questions regarding this CAP, please contact our Office.

Sincerely,

Gerlda B. Hines, CPA State Accounting Officer

Gerldon B. Hives

200 Piedmont Avenue • 1604 West Tower • Atlanta, Georgia 30334 • (404) 656-2133 • (404) 463-5089 FAX www.sao.georgia.gov

TABLE OF CONTENTS

STATE	STATE	
ENTITY ¹	AGENCY	NUMBER
FINANCIAL STATEM	ENT FINDINGS UNDER GOVERNMENT AUDITING STANDA	RDS ²
	Statewide	D-5
414	Department of Education	D-5
419	Department of Community Health	D-5
422	Office of the Governor	D-5
440	Department of Labor	D-5
474	Department of Revenue	D-5
548	Savannah State University	D-5
927	State Road and Tollway Authority	D-5
977	Georgia Public Telecommunications Commission	D-5
5036	Georgia Institute of Technology Research Corporation	D-5
FEDERAL AWARD F	INDINGS	
U.S. DEPARTMENT C	F EDUCATION	
414	Department of Education	D-5
509	Georgia State University	D-5
548	Savannah State University	D-6
561	Atlanta Metropolitan State College	D-7
569	Dalton State College	D-16
588	South Georgia State College	D-18
832	Gwinnett Technical College	D-19
U.S. DEPARTMENT C	F HEALTH AND HUMAN SERVICES	
419	Department of Community Health	D-19
419 & 427	Department of Community Health and Department of	D-22
	Human Services	
U.S. DEPARTMENT L.	ABOR	
440	Department of Labor	D-22
U.S. DEPARTMENT C	•	
422	Office of the Governor	D-35

 $^{^{1}}$ The entity number represents the control number that was assigned to each State entity.

 $^{{}^2\}textit{ Financial Statement findings were previously released in the State of Georgia Single Audit Report Part I.}\\$

FINANCIAL STATEMENT FINDINGS REPORTED UNDER GOVERNMENT AUDITING STANDARDS

Financial Statement findings were previously released in the State of Georgia Single Audit Report Part I. This report can be accessed on SAO's website: https://sao.georgia.gov/statewide-reporting/federal-compliance-reporting#toc-single-audit-report-andpresentations.

FEDERAL AWARD FINDINGS

2021-014 Improve Controls over Transparency Act Reporting

Federal Agency: U.S. Department of Education

State Entity: Department of Education

Corrective Action Plans:

We will continuously monitor the compliance supplements for updates in order to meet all requirements. We are currently in the process of hiring new staff to complete FFATA reporting, which will better ensure the reports are submitted timely and accurately.

Estimated Completion Date: June 30, 2022

Contact Person: Metsehet Ketsela, Accounting Manager II

Telephone: (404) 656-2497; **E-mail:** metsehet.ketsela@doe.k12.ga.us

2021-015 Improve Controls over Cash Management

Federal Agency: U.S. Department of Education

State Entity: Georgia State University

Corrective Action Plans:

The accumulation of Title IV cash occurred due to a high volume of funds being pulled back from student accounts and returned to the Title IV program for students that withdrew from classes. Office of Revenue, Receivable and Cashiering Services (RRCS) personnel responsible for Title IV drawdowns have been required to attend Federal Student Aid training over cash management. RRCS is now monitoring Title IV cash activity daily and will coordinate with the Office of Student Financial Aid on anticipated cash needs. In addition, evidence of supervisory review and approval has been added to Title IV drawdown documentation as recommended by the Georgia Department of Audits and Accounts.

2021-015 Improve Controls over Cash Management (continued)

Estimated Completion Date: November 1, 2022

Contact Person: Brad Freeman, VP for Finance and Administration

Telephone: (404) 413-3035; **E-mail:** jfreeman61@gsu.edu

2021-016 Improve Controls over the Awarding Process

Federal Agency: U.S. Department of Education

State Entity: Savannah State University

Corrective Action Plans:

The institution has made an investment in a reporting tool that will enable the financial aid office staff to run reports that would catch any discrepancies between enrollment data and aid awarded or disbursed.

Estimated Completion Date: December 31, 2021

Contact Person: Raymond Clarke, VP for Enrollment Mgmt and Student Affairs

Telephone: (912) 358-4338; E-mail: clarke4@savannahstate.edu

2021-017 Improve Controls over the Return of Title IV Funds Process

Federal Agency: U.S. Department of Education

State Entity: Savannah State University

Corrective Action Plans:

The Financial Aid Office, the Bursar Office and the Registrar Office will review process flows to ensure that R2T4 calculations are being completed accurately and timely for both official and unofficial withdrawals. Staff will also receive additional training and a system of checks and balances will be implemented to make sure that data is entered correctly.

Estimated Completion Date: December 31, 2021

Contact Person: Raymond Clarke, VP for Enrollment Mgmt and Student Affairs

Telephone: (912) 358-4338; **E-mail:** clarke4@savannahstate.edu

2021-018 Strengthen Controls over Enrollment Reporting

Federal Agency: U.S. Department of Education

State Entity: Savannah State University

Corrective Action Plans:

The Financial Aid Office and the Registrar's Office will work on the policy and processes related to students who withdraw, change programs, or change enrollment status to ensure that these updates are processed timely and correctly. In addition, all set up tables in BANNER are being reviewed to ensure accuracy and reporting will occur at least once a month.

Estimated Completion Date: December 31, 2021

Contact Person: Raymond Clarke, VP for Enrollment Mgmt and Student Affairs

Telephone: (912) 358-4338; **E-mail:** clarke4@savannahstate.edu

2021-019 Improve Controls over the Awarding Process

Federal Agency: U.S. Department of Education **State Entity:** Atlanta Metropolitan State College

Corrective Action Plans:

- 1. The Financial Aid adapted its awarding process to replace manual calculations to Banner electronic calculations
- 2. Banner Validation Tables and Rules were reviewed and updated internally to ensure fee/charge data were aligned with course registration/withdrawal and other registration data associated with R2T4 calculations
- 3. Enhanced faculty training to improve accuracy, documentation, and reporting of attendance verification ("No Shows")
- 4. Developed a validation control, utilizing Crystal Report, to monitor "over awards." The results are passed on to the Business Office for updates to any refunds processed.
- 5. FA implemented a population selection process to extract all transfer students and verify against the RNATMNT form, prior to SFA, listing student registering after the Transfer Monitoring List, to ensure all transfer student data has been submitted.

Finding Description #1 - Early Disbursement schedules not setup correctly in Banner; therefore, first-time loan borrowers were disbursed funds prior to an actual 30-day hold.

2021-019 Improve Controls over the Awarding Process (continued)

Finding Description #2 - Banner setup was incorrect and thus the system did not recognize loan amount in excess of Grade Level 2. All students who were Grade Level 3 or 4 were never shown the true and correct loan eligibility amounts and instead were only shown and disbursed the lower Grade Level amounts as being their maximum eligibility.

Finding Description #3 - Delayed credit balances provided to students after balances were created.

Finding Description #4 - Early disbursement for students receiving PELL grant funds registered in different parts-of-term.

Institutional Response to the Cause of the Finding Descriptions

The Financial Aid Office relies on Banner, the institution's student information system, for scheduling and implementation of disbursement of funds to students. The incorrect configuration of Banner validation and rule tables caused the 30-day disbursement hold error (Finding Description #1). The 30-day hold issue occurred because part-of-term start dates may occur less than 30 days apart (e.g. 15 Week Start Date: August 16, 2021; and the 12 Week Start Date: September 7, 2021). Disbursements, prior to the Spring 2021 finding, were distributed to students at the start of the semester, in the 15 Week part of term, regardless if the student was enrolled in a later part-of-term. Thus, this created the finding when students' funds were disbursed and the start dates of the part-of terms were less than 30 days apart.

Finding Description #2, associated with loan amount limits, was a carry-over from the institution's participation in a Department of Education "Experiment 7" Pilot program. In this DOE program, the financial aid for certain students were limited based on certain variables, such as registered credit hours and classification. While the pilot program ended, the loan limits, inadvertently were kept in place.

Finding Description #3, delayed credit balances to students were caused at a time during the semester when the institution's Bursar was hospitalized and unable to process and send the credit balances to students in a timely manner. Moving forward, a back-up system has been put in place should the Bursar's Office is unable to fulfill the responsibility of sending credit balances to students. The corrective actions taken to addressing Finding Description #3 and the other Finding Descriptions are provided in Table 2.

The early disbursement of funds for PELL recipients (Finding #4) occurred when student was registered for multiple parts-of-term, but the disbursement was distributed in a single term. The source of this error was also incorrect setup of Banner validation/rule Tables (RORSAYR), which was configured with a disbursement scheduling based only on "credit hours," without any consideration for students who register for multiple parts-of-term. For example, if a student registered for nine total credit hours, one course in full 15-week term and two courses in the 12-week term, the student would receive all funds in the 15-week at the beginning of the 15-week term. Student disbursements were released by credit hour in a single disbursement, as opposed to being distributed across multiple parts-of-term.

2021-019 Improve Controls over the Awarding Process (continued)

The institution does find it noteworthy of mentioning that while the award findings are classified under the same category, the nature (or types) of these findings in the Spring 2021 audit are different in nature from those in prior monitoring periods. Also, while the College takes all findings and their resolution very seriously, the Spring 2021 findings were all downgraded to non-material findings, when compared to a material finding in the prior year.

Finding Descriptions Addressed / Corrective Action Taken

#1 Early Disbursement - The validation and rule forms in Banner were corrected to accurately schedule disbursement to correspond to the 30-day hold for first-time loan borrowers. Two essential control were put in place to validate accurate disbursement:

- 1. A dynamic form will automatically notify the financial aid office of every first-time loan recipient who registers. This notification will prompt the Financial Aid staff to verify that the 30-day hold is in effect and accurate.
- 2. The Financial Aid R2T4 validation tables were certified for accuracy for the Fall 2021 semester.

#2 Incorrect Loan limits - Grade Level loan limits have been removed and corrected in Banner for the 2021-2022 year, and moving forward. Loan Limits per Grade Level have been adjusted to the appropriate amounts at for grade levels, freshman to seniors. A comparison to the previous year demonstrates the correction. Banner screenshots comparing the past and current years verify the updates were made.

#3 Delayed Credit Balances to Students - The contingency for sending out credit balances, and to carry out other Bursar responsibilities, in case the Bursar's office is unable to do so. Effective September 1, 2021, the Interim VP Fiscal Affairs and Director Business Services will serve as backup to the Bursar in his/her absence.

#4 Disbursement Across Multiple Parts-of-Term - The appropriate corrections have been made to Banner calculations to accurately provide disbursement scheduling to accurately disburse funds by part-of-term. Beginning Fall 2021, for students enrolled in multiple terms, disbursements will be distributed based on credits registered and by part of term. Thus, students registered in multiple parts-of-term will receive proportions of their funds, based on in each part-of-term he/she is enrolled.

Similar to the dynamic form automatic notification for First-time loan recipients, a notification will be sent to the Financial Aid Office for all PELL recipients. This notification will prompt Financial aid staff to verify that disbursements occur in the proper part-of-term.

Estimated Completion Date: October 11, 2021

Contact Person: Joel Depue, Interim SFA Director

Telephone: (972) 824-8275; E-mail: joeld@collegeaidservices.net

2021-020 Strengthen Controls over the Verification Process

Federal Agency: U.S. Department of Education **State Entity:** Atlanta Metropolitan State College

Corrective Action Plans:

Finding Description #1 - Verification Worksheet was found to be missing student/parent signatures.

Finding Description #2 - Certification of Non-Tax Filing was not completed correctly or had missing information.

Institutional Response to the Cause of the Finding Descriptions

The primary cause for the finding on verifications is inadequate staffing to provide sufficient process time to not only conduct verifications, but also to perform appropriate quality control checks for accurate and timely verifications. Over the past two years, the University System of Georgia (USG) has implemented shared services across its 26 institutions. Starting Fall 2021, Atlanta Metropolitan State College, along with two other USG institutions (i.e., Fort Valley State University, and Albany State University) were selected for verification shared services.

The goal of this USG shared service is to provide additional verification support to select public institutions, particularly those with the lowest staff FTEs, by coordinating System-wide technology and expertise to create synergistic outcomes that alleviate verification responsibilities at the local level and sustain high efficiency and quality outcomes. This shared service has already resulted in a more efficient and effective financial aid verification process at Atlanta Metropolitan State College. This new verification shared service is permanent and will reduce the staff workload and time required for verifications. This new USG program has directly addressed the College's Spring 2021 Audit verification findings. The following corrective actions (Table 3) have been implemented Fall 2021 to address Audit Finding #2.

Finding Descriptions Addressed/Corrective Action Taken

#1 and #2 - (1) The institution will participate in a USG Shared Service for financial aid verification. This shared service is a comprehensive process that includes quality control of process outputs. AMSC is among the first USG institutions to enroll into this program, with two other USG institutions: Albany State University and Fort Valley State University. USG has assumed a major role organizing and implementing this shared service verification process for participating institutions. Utilizing the USG Shared Services for verification processing has provided the necessary support level needed such that this should not be a future finding for the institution. (2) AMSC has hired a new full-time Financial Aid staff member to assist with workload requirements and quality control of verifications. The new staff member will conduct additional validation to ensure accuracy of verifications. (3) The Department of Education has also negated V1 verification status codes for 2021-2022. Institutions will only be required to complete verification for V4 (i.e., Official HS Transcript or GED) and/or V5 Verification Flags (i.e., verification of identity/educational purpose). The reduction in V1 reduces workload requirements and allows more time spent on other aspects of the verification process.

2021-020 Strengthen Controls over the Verification Process (continued)

Estimated Completion Date: October 11, 2021

Contact Person: Joel Depue, Interim SFA Director

Telephone: (972) 824-8275; E-mail: joeld@collegeaidservices.net

2021-021 Improve Controls over the Return of Title IV Funds Process

Federal Agency: U.S. Department of Education **State Entity:** Atlanta Metropolitan State College

Corrective Action Plans:

Institutional Response to the Cause of the Finding Descriptions

First and foremost, in early Spring 2021, the institution realized that seasoned and highly experienced leadership were necessary in the Director of Financial Aid and Registrar's positions to fully resolve its compliance findings and issues associated with Standard 13.6. And that while several process changes were made in past monitoring report, the institution was addressing symptoms of the problems, but not truly treating the root source of the problems – appropriate leadership and oversight of the Financial Aid Office and financial aid processes and policies. In addition, the institution realized after several attempts of fully addressing the R2T4 finding and related issues, a comprehensive review and training was necessary by an external, authorized organization for AMSC to fully address R2T4 findings and to align the processes with federal and state requirements. The institution achieved these two fundamental objectives at the beginning of Spring 2021, but was unable to fully really the outcomes before the Spring 2021 in June 2021. Beginning Summer 2021 and moving forward, the full fruition of the fundamental changes made are now fully realized. The institution is prepared to make its case further on the Special Committee's October 2021 visit.

Upon review of the Spring 2021 audit findings, the institution was able to meticulously determine the source of the R2T4 errors: (1) to strengthen process needs and (2) to not take the R2T4 errors into the Fall 2021 semester and beyond. The lack of standard procedures and policies, based on best practices, was an operational need that resulted in inaccurate R2T4 lists, and resulted in missing and inconsistent R2T4s. Prior to the Spring 2021 semester, the withdrawal lists were pulled by two separate offices, the Office of Management Information Systems' Database Manager and the Office of Institutional Research. When tracking the source of differences in R2T4 lists, it was determined that the two offices used different parameters to extract the R2T4 lists, which led to multiple variations in the lists created, including different lists, and inconsistent results for official and unofficial withdrawals, ultimately leading to R2T4 audit findings.

2021-021 Improve Controls over the Return of Title IV Funds Process (continued)

The source of the majority of errors in R2T4 calculation findings in the Spring 2021 audit was determined to be human errors, with the exception of original charge errors generated in Banner due to incorrect setup of the appropriate validation and rule forms by the Registrar's Office. For example, if a student reduced the credit hours from one enrollment status to another (e.g., full-time to half-time) but Banner did not accurately recalculate the student's new enrollment status. It that case, the R2T4 calculation would be made on fulltime status rather than the actual half-time enrollment status of the student. Incorrect start/end dates, errors in determining the 60% cutoff in determining earned and unearned calculations, and incorrectly factoring holidays into the 60% attendance evaluations were errors tracked back to the source of the R2T4 identified audit report findings. In some cases, an uncertainty of last date of attendance (LDA) contributed to R2T4 calculations errors, which prompted the College to develop standard LDA policy. The references to proration and over-award errors in the audit report were tracked back to original charge errors created when Banner was not setup properly to accurately calculate credit hours for students.

Collectively, the numerous errors led the institution to two clear conclusions (1) a more reliable and valid process was needed to ensure accurate R2T4 calculations across the board, and (2) a control is necessary to identify R2T4 errors at or near the point that they occur. Prior to Spring 2021, a single person, the Financial Aid Director, was responsible for ultimately vetting the withdrawal list for all R2T4 calculations and responsible for making R2T4 electronic fund transfers. A single person being responsible for carrying these multiple functions without neither a check-and-balance nor a monitoring process was a recipe that led to delays in the R2T4 processing and recurring R2T4 errors, such as those identified in the Spring 2021 audit and in prior monitoring reports. The next section identifies the fundamental and operational changes the institution made in the Spring 2021 that extended into early summer 2021 to complete.

Finding Descriptions Addressed/Corrective Action Taken #1, #2

New Leadership in Financial Aid and Support Offices

- 1. A strategic decision was made to hire a well experienced, seasoned Interim Director of Financial Aid, a person highly capable of immediately addressing the multiple issues and audit findings associated with R4T4 processes and policies. A search for a permanent Director is currently advertised. The Interim Director will remain in place to provide support and training for the permanent Director.
- 2. A full-time College Registrar was hired, who brings decades of experience in R2T4 processes and support, significant Banner expertise, and a strong background in the Registrar's Office processes and polices.
- 3. The new Full-time Financial Aid counselor, mentioned earlier in this report, will be assigned a percentage of workload toward R2T4 processing and controls.

2021-021 Improve Controls over the Return of Title IV Funds Process (continued)

External Authorized and Independent Reviews and Training

- 1. In consultation with USG Staff, Atlanta Metropolitan State College added two additional layers of external consultation, review, validation, and training: College Aid Services (CAS) and the American Association of Collegiate Registrars and Admissions Officers (AACRAO). CAS is a national organization with expertise in financial aid processing and policy, was hired to review the College Financial Aid SAP and R2T4 processes. College Aid began its work at AMSC in Spring 2021, after the institution received the Third Monitoring Report notification from SACSCOC in January 2021. The timeframe that College Aid began its comprehensive review of AMSC's R2T4 and SAP policies and procedures spanned through the Spring semester into the early summer term.
- 2. While some of the updates resulting from College Aid's consultation were realized in the Spring Audit, insufficient time was available to incorporate the full scope of the updates prior to the Spring 2021 Audit. Full implementation of College Aid recommended corrective actions for AMSC R2T4 and SAP processes, however, have been implemented for the Summer 2021 and Fall 2021 terms. The College's new full time Financial Aid staff member, mentioned earlier, will also provide additional support for R2T4 processes. College Aid R2T4 training and support will remain in place through Spring 2021 calendar year. The R2T4 training by College Aid, which started by contract the Spring 2021 semester, will extend into the Spring 2022 semester.
- 3. A comprehensive and comparable review and training was provided for the institution's Registrar's Office by the American Association of Collegiate Registrars and Admissions Officers AACRAO. This support and training began in the Spring 2021 semester and will continue through Summer 2021.

Process Updates and Improvements

As a result of comprehensive reviews by College Aid and AACRAO, along with the recommendations by new leadership in the Financial Aid and Registrar's Offices, the following process updates and improvements were put in place to address the findings in the Spring 2021 audit, and moving forward:

- 1. A standard R2T4 procedure was created and implemented by the Financial Aid Office, including clear process steps, the responsibilities for all units supporting the R2T4 process, parameters for pulling R2T4 lists, and definitions associated with various steps in the R2T4 process. This standard process ensures consistency, timely reporting, and a coordinated effort for all contributors to the R2T4 process.
- 2. The Financial Aid R2T4 process has moved from a manual to an automated R2T4 process for making R2T4 calculations. This automated process, initiated Summer 2021, has eliminated the human errors driving most R2T4 miscalculations. The new automated Banner R2T4 process entails automated input of such information as LDAs, original charges, and date of determination. This direct input of R2T4 data are other examples of eliminating human error in R2T4 calculations.
- 3. An operations calendar was developed and implemented to ensure appropriate personnel R2T4 assignments and other financial aid tasks with timelines.

2021-021 Improve Controls over the Return of Title IV Funds Process (continued)

- 4. To ensure accuracy in withdrawal lists for R2T4 purposes, the primary assignment for pulling withdrawal data was assigned to a single source, the Office of Institutional Research, coordinating with the College's Registrar's Office. This action eliminates different multiple lists generated by different offices.
- 5. A comprehensive LDA policy was developed and implemented for the Spring 2021 and Fall 2021 semesters to define the terms and conditions of documenting processes for reporting and storing LDAs. This policy eliminates ambiguity and inconsistency of LDA reporting by faculty across the various Schools and increasing R2T4 accuracy. In addition, this policy identifies timeframes allowed for processing withdrawals (i.e., official and unofficial).
- 6. A "60% calculator" consistent with Financial Aid practices and standards (and verified by College Aid) has been built and currently utilized by the institution for all R2T4 calculations. The "60% calculator" correctly accounts for holidays in R2T4 60% calculations, a common error identified in the College's Audit Report. A standard calculator to determine whether or not a student attended class beyond the 60% mark.
- 7. An R2T4 Tracker Form has been employed to identify and document process dates and other critically important R2T4 metrics to allow campus-wide stakeholders to monitor the status of an R2T4 submissions to the DOE.
- 8. Starting Fall 2021, the Registrar's Office began sending weekly reports of any Official Withdrawals so that R2T4s can be processed throughout the semester, eliminating last minute and late R2T4 submissions.
- 9. Banner code corrections/updates (e.g., the "No Show" code) have been reinstated to allow offices involved in the R2T4 process to better track student attendance verifications, and to distinguish between drop/add, non-attendance, and withdrawal statuses to make accurate and efficient R2T4 and related calculations.
- 10. Checkpoint Reports are submitted up to the President's Cabinet level and reviewed in weekly meetings to ensure accountability and sustainability of responsibilities in R2T4 reporting ensuring timely and accurate financial aid processing.
- 11. The Annual pre-audit completed for the Spring 2021 semester by the USG Department of Audits exposed ongoing issues. The pre-audits will continue for the next two years to serve as an additional layer of validation by an additional external reviewer to ensure the College sustains accurate and appropriate R2T4 policies and procedures.
- 12. A Financial Aid "Operations Calendar" has been created and implemented to summarize all of the required financial aid procedures, as well as document the appropriate assigned personnel and frequency of each procedure.

Estimated Completion Date: October 11, 2021

Contact Person: Joel Depue, Interim SFA Director

Telephone: (972) 824-8275; E-mail: joeld@collegeaidservices.net

2021-022 Strengthen Controls over Enrollment Reporting

Federal Agency: U.S. Department of Education **State Entity:** Atlanta Metropolitan State College

Corrective Action Plans:

<u>Institutional Response to the Cause of the Finding Descriptions</u>

The institution's review of the Spring 2021 findings on Enrollment Reporting, its conclusions, and subsequent course of action were very similar to those related to the R2T4 finding. Similarities existed in both cases as related to a single person executing essentially the full enrollment reporting process with limited controls to monitor and validate the outcomes. The lack of appropriate leadership and process controls over the NSC enrollment and NSLDS reporting were undermining progress made in updates made in prior monitoring reports. The institution made the decision to make fundamental changes in enrollment reporting, which details are provided in the next section.

A line-by-line analysis of the errors identified in the Spring 2021 audit was completed. The National Student Loan Data System (NSLDS) Enrollment Finding resulted from a combination insufficient training requirement of staff updating NSLDS records/errors and insufficient controls to ensure consistent reporting across the NSLDS, National Student Clearinghouse (NSC) and Banner platforms. The College Registrar has assumed responsibilities for NSC and NSLDS submissions and validations, who bring extensive experience in NSC and NSLDS processing and submissions. The Regi, including R2T4 and SAP.

The inaccurate enrollment status reporting for 34 time was an incorrect Banner validation table setting. Incorrect enrollment and program data were tracked to human error, and a lack of understanding NSC and NSLDS codes. Prior to Spring 2021, there was no training requirement for staff processing NSC and NSLDS, and the lack train led to misinterpretation of terms and definitions, ultimately leading to errors in enrollment and program data. The lack of appropriate monitoring, accountability, and explicit submission expectations were determined to be the primary factors that led to delayed certification.

Table 4 provides a list of the corrective actions taken to address the Spring 2021 audit Finding Descriptions in NSC and NSLDS Enrollment Reporting.

Finding Descriptions Addressed Corrective Action Taken

#1 New Leadership

1. To ensure the corrective actions in all areas of enrollment reporting are implemented accurately and in a timely manner, the new and permanent College Registrar, introduced earlier, has assumed the responsibility for NSC and NSLDS reporting. This individual brings a wealth of supervisory experience and process knowledge in enrollment reporting.

2021-022 Strengthen Controls over Enrollment Reporting (continued)

Banner Updates

2. The Banner Validation Table was updated to now report the correct ¾ Time Enrollment Status.

#2, #3, #4

Process Updates and Improvements

- 3. A formal training is now required by the College Registrar for all individuals updating NSC and NSLDS errors and tables.
- 4. Starting the Fall 2021 semester [Exhibit xx], a control is now implemented to validate consistency between NSLDS, NSC, and Banner enrollment and program level data.
- 5. Standard NSC and NSLDS policies and Procedures, requirements to demonstrate and proficiency in definitions of SSDs and NSLDS terminology are now implemented to ensure consistent and reliable processing of NSC and NSLDS error reports in a timely manner.

Estimated Completion Date: October 11, 2021

Contact Person: Joel Depue, Interim SFA Director

Telephone: (972) 824-8275; E-mail: joeld@collegeaidservices.net

2021-023 Strengthen Segregation of Duties

Federal Agency: U.S. Department of Education

State Entity: Dalton State College

Corrective Action Plans:

We concur with this finding. Since the review was completed, the Office of Financial Aid and the Bursar's Office have worked with the Office of Computer Information System (OCIS) to reduce the number of employees with multi-level access in Banner from 24 to 5. Unfortunately, due to limited staffing at DSC, it is nearly impossible to restrict access to all 24 individuals as some of those individuals have multiple job duties that require they have multi-level access in Banner. However, OCIS is aware that the institution needs mitigating controls in place for these staff members and therefore they are working with ITS to implement fain grain auditing in Banner and the institution will also begin performing the SOD matrix on a quarterly basis.

Estimated Completion Date: December 15, 2021

Contact Person: Carol Jones, SFA Director

Telephone: (706) 272-2526; **E-mail:** cjones@daltonstate.edu

2021-024 Improve Controls over the Return of Title IV Funds Process

Federal Agency: U.S. Department of Education

State Entity: Dalton State College

Corrective Action Plans:

We concur with this finding. The Office of Student Financial Aid has worked in conjunction with the Registrar's Office and the Office of Computing and Information Systems (OCIS) to streamline the collection of information on students who unofficially withdraw. Faculty who input grades of F or WF are required to enter a last date of attendance in Banner. The Registrar's Office will be able to use that last date of attendance to identify students who stopped attending without completing an official withdrawal. Those students will then be considered to be Unofficial Withdrawals and will have calculations performed.

Estimated Completion Date: December 15, 2021

Contact Person: Carol Jones, SFA Director

Telephone: (706) 272-2526; **E-mail:** cjones@daltonstate.edu

2021-025 Strengthen Controls over Enrollment Reporting

Federal Agency: U.S. Department of Education

State Entity: Dalton State College

Corrective Action Plans:

We concur with this finding. Students who were enrolled ¾ time were not being reported in previous semesters. Upon notification of this error, the Registrar's Office added the necessary coding to the student management system to properly report this enrollment information to NSLDS.

Estimated Completion Date: September 29, 2021

Contact Person: Carol Jones, SFA Director

Telephone: (706) 272-2526; **E-mail:** cjones@daltonstate.edu

2021-026 Improve Controls over the Awarding Process

Federal Agency: U.S. Department of Education

State Entity: South Georgia State College

Corrective Action Plans:

To ensure that the deficiencies do not occur again we have taken the following actions:

- While no over disbursements occurred, one student was awarded more need-based financial aid than their financial aid need. In the first situation, information came to light after a student had already been awarded for the academic year which impacted their financial need. However, the students existing loan which had already been disbursed was not cancelled and the funds returned. A new policy has been developed and implemented to address these situations. The new policy requires that when a student is found to be ineligible after an award is made, the Director of Financial Aid or their representative will eliminate the over award by reducing the students need based award and returning and funds previously disbursed.
- One student was not in compliance with the Institution's published Satisfactory Academic Progress (SAP) policies. The student did not meet the qualitative requirement of SAP, which resulted in over disbursements totaling \$6,095. In the second situation, a grade was reported late by a faculty member and was not available to be included in the SAP Calculation at the end of the students first semester at SGSC. If the grade had been present the student would have been placed on warning instead of in good standing. At the end of the following semester, the student should have been placed on financial aid suspension for SAP, but was only placed on warning due to the incorrect calculation the prior semester and went on to receive \$6,095 is funds when they were ineligible for aid for the semester. A new procedure has been implemented where any grade changes receive by the Office of the Registrar are forwarded to the Associate Director of Financial Aid for them or their designee to recalculate SAP for the term the grade was posted to and any later semesters. Periodic reviews of grade changes will be conducted to ensure that the procedure has resolved the situation and prevents future awards to ineligible students.

Estimated Completion Date: August 19, 2021

Contact Person: Douglas R. Tanner, Director of Financial Aid **Telephone:** (229) 260-4200; **E-mail:** doug.tanner@sgsc.edu

2021-027 Strengthen Controls over the Return of Title IV Funds Process

Federal Agency: U.S. Department of Education

State Entity: Gwinnett Technical College

Corrective Action Plans:

The Financial Aid Office has worked with the Registrar's Office, Academic Affairs leadership, and the Business Office to streamline the collection, review, and processing of students who are unofficial withdrawals. Streamlining the unofficial withdrawal process will allow for timely and accurate reporting, return of title IV, and reconciliation of funds between GTC and COD.

Estimated Completion Date: January 1, 2022

Contact Person: Kohle Paul, VP of Student Affairs

Telephone: (678) 226-6302; **E-mail:** kpaul@gwinnetttech.edu

2021-028 Improve Controls over Managed Care Organization Financial Audits

Federal Agency: U.S. Department of Health and Human Services

State Entity: Department of Community Health

Corrective Action Plans:

DCH has amended its Care Management Organizations (CMO) Contract to include provisions which require the CMOs to provide annual audited financial statements to DCH. DCH will post all required reports to the DCH website.

Estimated Completion Date: June 30, 2022

Contact Person: Lynnette Rhodes, Executive Director, Medical Assistance Plans

Telephone: (404) 656-7513; E-mail: lrhodes@dch.ga.gov

2021-029 Improve Controls over Medicaid Payments after Date of Death

Federal Agency: U.S. Department of Health and Human Services

State Entity: Department of Community Health

Corrective Action Plans:

The Department ("DCH") modified its date of death processes within the Georgia Medicaid Management Information System ("GAMMIS") to either disallow or recoup payments made to Fee-for-Service providers when the submitted claim reflects a date of service after the member's date of death. DCH opened CSR #1563 on 8/26/2020. Through CSR #1563, GAMMIS began identifying Medicaid/PeachCare for Kids members on the Social Security Death Master File. Members who are identified as being on the Social Security Death Master file are removed from the list of active Medicaid/PeachCare for Kids members. Accordingly, only claims with dates of service prior to the date of death will process. CSR #1563 was implemented and moved into production on March 1, 2021. Upon subsequent review, we identified a defect with the quarterly automated date of death claims adjustments process. The defect will be corrected on March 30, 2022.

Estimated Completion Date: March 30, 2022

Contact Person: Lynnette Rhodes, Executive Director, Medical Assistance Plans

Telephone: (404) 656-7513; E-mail: lrhodes@dch.ga.gov

2021-030 Improve Controls over Medicaid Capitation Payments for Medicare Members

Federal Agency: U.S. Department of Health and Human Services

State Entity: Department of Community Health

Corrective Action Plans:

DCH opened CSR #1561 on 8/6/2020. Additional modifications are required before we can fully implement the process to recoup capitation payments for Medicare eligible recipients. Specifically, further work is needed regarding the removal of Part D Coverage when no Part A and Part B coverage exist. We have received technical assistance from CMS regarding the removal of Part D data and the impact to the member's file in GAMMIS. Gainwell Technologies is creating the required change orders and tasks. All changes will be moved into production by June 30, 2022.

Estimated Completion Date: June 30, 2022

Contact Person: Lynnette Rhodes, Executive Director, Medical Assistance Plans

Telephone: (404) 656-7513; **E-mail:** lrhodes@dch.ga.gov

2021-031 Continue to Strengthen Application Risk Management Program

Federal Agency: U.S. Department of Health and Human Services

State Entity: Department of Community Health

Corrective Action Plans:

The Agency has identified and secured the necessary matching State funds along with approved Federal funds required to implement its CAP in order to fully remediate the audit finding by December 31, 2022. As a part of the remediation, the Agency is moving forward with acquiring the identified internal cybersecurity resources and contracted third-party security services required to fully remediate the audit finding within the identified timeframe. The DCH Cybersecurity Office continues to monitor electronic visit verification (EVV) information security compliance through the following:

- Office of Information Security (OIS) reviewed and approved the Netsmart SSP and CMS certification Security assessment report and Plan of Action and Milestones (POAM).
- Currently tracking the remediation of one moderate severity assessment compliance gap scheduled for remediation by the end of March 2022. EVV security and privacy certification was approved by Centers for Medicare and Medicaid Services (CMS).
- EVV system security plan (SSP) and POAM was reviewed with GTA OIS. No additional security compliance recommendations were provided by GTA OIS.
- The EVV Solution Service Provider, Conduent/Netsmart has implement a National Institute of Standards and Technology (NIST) compliant multi-factor authentication (MFA) solution for all in scope privileged accounts.

Estimated Completion Date: December 31, 2022

Contact Person: Jay Mistry, Deputy CIO

Telephone: (404) 576-7696; **E-mail:** jmistry2@dch.ga.gov

2021-032 Improve Controls over Inpatient Medicaid Payments

Federal Agency: U.S. Department of Health and Human Services

State Entity: Department of Community Health

Corrective Action Plans:

The State Plan Amendment 21-0004 was approved by CMS on June 21, 2021 with an effective date of July 1, 2021. This State Plan Amendment allows desk reviews/audits an focus reviews in lieu of on-site field audits. Current technology allows audits to be performed remotely instead of one-site or in person. This was an issue for SFY2021.

2021-032 Improve Controls over Inpatient Medicaid Payments (continued)

Estimated Completion Date: July 1, 2021

Contact Person: Lynnette Rhodes, Executive Director, Medical Assistance Plans

Telephone: (404) 656-7513; E-mail: lrhodes@dch.ga.gov

2021-033 Improve Controls over Medicaid Eligibility Determinations for Ex Parte

Members

Federal Agency: U.S. Department of Health and Human Services

State Entity: Various State Agencies:

Department of Community Health Department of Human Services

Corrective Action Plans:

DFCS has identified the remaining members, who had not received a Continued Medicaid Determination (CMD) prior to the implementation of system automation, and has begun work on their CMDs.

Estimated Completion Date: March 31, 2022

Contact Person: Lynnette Rhodes, Executive Director, Medical Assistance Plans

Telephone: (404) 656-7513; E-mail: lrhodes@dch.ga.gov

2021-034 Strengthen Controls over Expenditures

Federal Agency: U.S. Department of Labor

State Entity: Department of Labor

Corrective Action Plans:

No corrective action warranted.

The State Auditor presents language from the Uniform Guidance, Section 200.404 regarding reasonable costs, stating specifically, A cost is reasonable if, in its nature and amount, it does not exceed that which would be incurred by a prudent person under circumstances prevailing at the time the decision was made to incur the cost.

2021-034 Strengthen Controls over Expenditures (continued)

To that statement we offer the following information which must also be considered under these circumstances:

- EUISAA Emergency Grants (\$1,000,000,000 to the states) amended Social Security Act, adding subsection (h) to 42 USC Section 1103:
 - 42 USC 1103(h)(4) "Any amount transferred to the account of a State under this subsection may be used by such State only for the administration of its unemployment compensation law, including by taking such steps as may be necessary to ensure adequate resources in periods of high demand."
- USDOL ETA Website COVID-19 FAQ's https://www.dol.gov/agencies/eta/coronavirus#adminflex ALL Grants Administrative Flexibilities Section:
 - Question: Can grantees repurpose grant funds to offset additional expenses related to COVID-19 such as increased paid time off or overtime for staff?
 - Answer: (last sentence) "Grant recipients should not place their staff in danger or a hazardous setting."

The condition statements reference a review of P-card purchases conducted by the state Department of Administrative Services reviewing food purchases made on behalf of GDOL staff during a declared international, national and state emergency.

The COVID-19 pandemic emergency created a perfect storm for GDOL and we continue to deal with residual effects of that perfect storm to this day. The event not only caused an epic increase in Unemployment Insurance (UI) claims for benefits due to the expansion of new federal programs but at the same time created a life altering impact to GDOL staff and their families. We must note for the record that our agency was grossly understaffed after years of reduced state and federal appropriations of administrative dollars and no assistance was offered through the legislative appropriation process nor did we receive distribution of adequate CARES act funding for critical staffing and operational needs from the State. While many employees were able to work from the safety of their homes, GDOL had to meet that challenge head on and provide critically needed financial assistance to eligible, suffering fellow Georgians. GDOL had the critical responsibility to serve customers filing claims at a rate and volume never seen in history. GDOL processed about 6 million UI benefit claims, an amount exceeding the sum total of all claims processed in the past ten years combined. More than 23 billion dollars in UI benefits have been paid. This amount exceeds the total amount of benefits paid in the previous 82 years combined.

To accomplish this potentially crippling feat, GDOL rehired experienced retirees, reassigned staff from other duties, and used contractors where appropriate. Consistent with the practice of other state labor departments, our employees were considered essential employees and continued to report to the office even as other state agencies and their employees (such as OIG, DOAS and DOAA) allowed their employees to work from the safety of their homes.

2021-034 Strengthen Controls over Expenditures (continued)

GDOL initiated efforts to keep our essential office employees safe during this time. For example, after securing approval from the Department of Administrative Services (DOAS) to provide lunches for our employees, GDOL began providing lunch to its workers in order for employees to remain in their offices and continue to sustain the critically required claims process.

Providing lunch and asking staff to remain at their desks allowed us to realize more than 230,000 additional work hours to process UI claims and interact with Georgians in desperate need of our services. The increase in labor hours is equivalent to approximately 90 additional full-time, experienced staff with an estimated savings of eight (8) million dollars in administrative costs. GDOL staffing during the period consisted of 1,100 employees, over 60 security guards and more than 400 contractors. We invested an average of one thousand dollars per employee over a 15-month period and were able to achieve and sustain an exceptionally high operational capacity. This translates to \$67 per month per employee invested to process six (6) million UI claims and deliver twenty-three (23) billion dollars in UI benefits faster than most states of comparable size in the midst of persistent threats to personal safety, exposure of employee home addresses on social media, property vandalism, and protests.

As offered in GDOL's response to the DOAS report, GDOL did not begin this process before seeking and securing authorization from DOAS to make the purchases using the P-card. GDOL followed DOAS' guidelines entering invoices each business day in the DOAS proprietary TGM statewide system. GDOL complied with SAO per diem guidelines of \$7 or \$9 for lunches (depending on office location) with limited exceptions that occurred in the initial deployment of the process. Any queries for clarification received from DOAS over the 15 months this occurred were quickly and fully addressed. Wherever possible, GDOL utilized small businesses struggling during the pandemic and the Georgia State University cafeteria. We also note here that the State Accounting Office finally modified its per diem guidelines effective February 1, 2022 to change the lunch per diem to \$14 after decades at the abysmally lower rate. We continued to follow emergency Coronavirus mandates and Executive Orders issued by the Governor's Office which remained in effect in June 2021. We also wanted to reduce the need to make stops on the commute to and from work. Any employee illness could negatively impact the operation. We took the responsibility to actively maintain a safe workplace.

Even OIG admits GDOL's reasons for providing lunches were justifiable before asserting that the justification somehow morphed into 'waste' in violation of the "gratuities" clause upon the approval of the COVID vaccines in March/April 2021. OIG also admitted that agencies have discretion with regards to how administrative assessment monies are spent. The federal dollars came from emergency administrative funds provided to the states by USDOL with broad discretion to states regarding the use of such funds to ensure adequate resources were available during this national historic emergency.

This process was thoughtfully considered and undertaken in a genuine effort to reduce unnecessary workplace exposure to COVID and markedly enhanced claim processing productivity. There was no vaccine available during the first 12 months of this activity. When vaccines were introduced, they were limited to certain populations who, for the most part, were not in the workplace processing UI claims.

2021-034 Strengthen Controls over Expenditures (continued)

The decision was made to deliver lunches to all of our locations as grocery stores experienced greatly diminished product availability, restaurants closed due to the shrinking workforce, no relief was in sight and no one had any reasonable prediction on how long this international crisis would last. GDOL could not and did not close down its processes and wait for the crisis to pass. That option was never a consideration. We have a responsibility to our fellow Georgians and to our employees. As an agency, we have experienced 382 cases of COVID, twenty-six (26) of those cases resulted in hospitalizations and unfortunately TEN (10) members of our staff paid the ultimate price and lost their lives to the Coronavirus. These ten staff members were parents, grandparents, siblings, friends, neighbors, and community partners. Four of these deaths occurred after the provision of lunches ended on June 10, 2021. These ten staffers were people engaged in the everyday life. We are certain that their surviving loved ones would find the categorization of providing them a delivered meal while they were at their desk working in a pandemic as a waste or abuse to be absolutely abhorrent. In the opinion of these external reviewers, staff at GDOL are undoubtedly dispensable.

We strongly disagree that investing in the health and safety of our employees was reckless, grossly negligent, needless, imprudent, wasteful and certainly not unreasonable. The loss of life and staff infections we suffered would likely have been far greater had we not taken the strategic approach to limit employee ingress and egress, provide meals and encourage social distancing in the workplace. Our attempt to protect our invaluable human resources by making the decision to reduce a known risk was neither abusive or unreasonable but an act of genuine compassion, a substantial benefit to the state, and actually more than reasonable given the limited alternatives.

Again, this investment was most beneficial as the return yielded hundreds of thousands of additional hours in critically needed, cost-efficient productivity. Such disregard for humankind does little more than contribute to the reasons that so many are leaving the workplace and causes employers in every sector to suffer as a result. GDOL employees were positioned as first responders as they continued to report to duty on the front lines in these historic, unprecedented circumstances. It is regrettable that the State OIG completed an 'investigation' and issued a report without ever giving GDOL an opportunity to respond to any perceived issue. GDOL made a judgment call to protect our staff from hazardous circumstances as best as we could while continuing to deliver critical services. We continue to believe our actions were necessary, appropriate and reasonable to continue to stand up the UI claims process. We stand by that decision.

Estimated Completion Date: June 30, 2021

Contact Person: John Williams, Accounting Director II

Telephone: (404) 232-3577; E-mail: john.williams@gdol.ga.gov

2021-035 Improve Controls over Eligibility Determinations

Federal Agency: U.S. Department of Labor

State Entity: Department of Labor

Corrective Action Plans:

The Georgia Department of Labor (GDOL) appreciates the opportunity to respond to the Georgia State FY 2021 Audit report. The pandemic resulted in an unprecedented volume of unemployment insurance (UI) claims related to the CARES Act. This warranted immediate adjustment to system and business processes with limited technical and business resources. Programming demands to implement federal pandemic UI programs on an already stressed benefits system caused an overwhelming burden to make payments quickly.

The following information addresses the areas in which GDOL disagrees with some findings and areas of concern by first providing the auditor's findings followed by Georgia's response.

The Georgia Department of Labor did not have effective internal controls in place to ensure unemployment benefit payments were made correctly and only to eligible claimants.

Auditors findings: (1) Identity verification was not performed appropriately in 29 instances.

GDOL Response: The Georgia Department of Labor disagrees with these findings as it relates to identity verification. The auditors did not identify the type of identity verification procedures not performed or any identity verification procedures that GDOL was required to perform. There was not a mandatory requirement to complete identity verification at the time most of these applications were submitted, which is outside the scope of the audit. At the start of the pandemic, the identity proofing processes available were Social Security Administration (SSA) verification, Department of Driver Services (DDS) crossmatch and for non-citizens, Systematic Alien Verification for Entitlement (SAVE). As applicable, these processes were performed on all initial regular and employer-filed claims (EFC), which includes the 29 instances.

(2) Non-monetary determination was not performed in two instances.

GDOL Response: Instance 1: The indicator used to hold payments while a lack of work separation is pending eligibility was resolved on 3/27/20. An allowable determination was released 4/29/22, and all payable weeks have been processed. There was no detriment to the claimant as they were determined eligible, nor was there any monetary loss to the State.

Instance 2: Employer-filed claim converted to total claim by employer on 5/19/20. An allowable determination was released 1/12/22, and all payable weeks have been processed. There was no detriment to the claimant as they were determined eligible, nor was there any monetary loss to the State.

2021-035 Improve Controls over Eligibility Determinations (continued)

(3) Documentation of wages was not maintained for 13 Pandemic Unemployment Assistance (PUA) claimants.

GDOL Response: The GDOL disagrees with the findings related to documentation of wages was not maintained for 13 PUA claimants.

For individuals who established PUA entitlement at a minimum weekly benefit amount, these claimants were instructed to submit their proof of wages by email. Under the CARES Act, if claimants did not submit proof, federal requirements only allowed for payment of the minimum weekly benefit amount and no disqualification of benefits. To date, no proof has been provided by the claimants cited. Claims were originally established and remain established for the minimum weekly benefit amount. In accordance with Continued Assistance Act (CAA) rules, the claimants were notified to provide proof of employment and wages for weeks paid on or after 12/27/20 and no such proof has been provided. Claimants have been disqualified effective 12/27/20 and overpayments established. The disqualification could not be applied retroactively to any benefit weeks paid under CARES.

For individuals who established PUA entitlement with a weekly benefit amount greater than the minimum, PUA claims were initially established based on wages entered by the claimant and/or wages reported by the employer. CARES Act only required proof of wages to be submitted. To date, no proof has been provided by the claimants. Claims have been reduced to the minimum weekly benefit amount and overpayments established. In accordance with CAA rules, the claimants were notified to provide proof of employment and wages for weeks paid on or after 12/27/20 and no such proof has been provided. Claimants have been disqualified effective 12/27/20 and overpayments established. The disqualification could not be applied retroactively to any benefit weeks paid under CARES.

(4) Proof of employment or self-employment or a valid offer to begin employment and proof of wages was not submitted by four PUA claimants.

GDOL Response: The GDOL disagrees with the findings related to proof of employment or self-employment or a valid offer to begin employment and proof of wages was not submitted by four PUA claimants. Under the CARES Act, claimants did not have to provide proof of employment or self-employment. It was not until CAA was enacted in December 27, 2020 that such proof was required. The disqualification could not be applied retroactively.

For individuals who established PUA entitlement at a minimum weekly benefit amount, these claimants were instructed to submit their proof of wages by email. Under the CARES Act, if claimants did not submit proof, federal requirements only allowed for payment of the minimum weekly benefit amount and no disqualification of benefits. To date, no proof has been provided by the claimants cited. Claims were originally established and remain established for the minimum weekly benefit amount. In accordance with CAA rules, the claimants were notified to provide proof of employment and wages for weeks paid on or after 12/27/20 and no such proof has been provided. Claimants have been disqualified effective 12/27/20 and overpayments established.

2021-035 Improve Controls over Eligibility Determinations (continued)

For individuals who established PUA entitlement with a weekly benefit amount greater than the minimum, PUA claims were initially established based on wages entered by the claimant and/or wages reported by the employer. CARES Act only required proof of wages to be submitted. To date, no proof has been provided by the claimants. Claims have been reduced to the minimum weekly benefit amount and overpayments established. In accordance with CAA rules, the claimants were notified to provide proof of employment and wages for weeks paid on or after 12/27/20 and no such proof has been provided. Claimants have been disqualified effective 12/27/20 and overpayments established.

- (5) One PUA claimant's last day worked was prior to the pandemic; therefore, they were not eligible for PUA.
- GDOL Response: Proof of self-employment submitted but unclear whether claimant was attached to employment when COVID started. The claim is being assigned to an examiner for further review. If it is determined the individual's last date worked was prior to the pandemic, an overpayment will be established.
- (6) One PUA claimant was not unemployed due to COVID; therefore, they were not eligible for PUA but were eligible for the Pandemic Emergency Unemployment Compensation (PEUC) program.
- GDOL Response: This same claim was a finding last year and addressed during last year's audit. At that time, claim was redetermined to not be eligible and overpayment was established.
- (7) One Regular UI claimant was paid the incorrect amount.
- GDOL Response: The issue was caused by system error. A unique confluence of circumstances (i.e., an avalanche of unemployment claims precipitated by a pandemic, implementation of multiple new programs, and public and political pressure to implement new programs rapidly) hindered GDOL's ability to test and implement system changes to the extent desired or possible under normal circumstances. An overpayment has since been established.
- (8) One PUA claimant was paid for a week ending date (WED) prior to the WED the individual stated their employment was affected by COVID.
- GDOL Response: UI benefit year beginning date is 3/15/20. Claimant listed affected by COVID beginning 3/19/20. Claimant was paid for week ending 3/14/20. Overpayment has been established.
- (9) Duplicate payments were noted in 13 regular UC transactions.
- GDOL Response: The issue was caused by system error. A unique confluence of circumstances (i.e., an avalanche of unemployment claims precipitated by a pandemic, implementation of multiple new programs, and public and political pressure to implement new programs rapidly) hindered GDOL's ability to test and implement system changes to the extent desired or possible under normal circumstances. An overpayment has since been established.

2021-035 Improve Controls over Eligibility Determinations (continued)

(10) Duplicate payments were noted in 12 PUA transactions.

GDOL Response: The issue was caused by system error. A unique confluence of circumstances (i.e., an avalanche of unemployment claims precipitated by a pandemic, implementation of multiple new programs, and public and political pressure to implement new programs rapidly) hindered GDOL's ability to test and implement system changes to the extent desired or possible under normal circumstances. An overpayment has since been established.

(11) Payments exceeding the claimant's weekly benefit amount (WBA) were noted for 133 State Extended Benefits (SEB) transactions.

GDOL Response: The issue was caused by system error. A unique confluence of circumstances (i.e., an avalanche of unemployment claims precipitated by a pandemic, implementation of multiple new programs, and public and political pressure to implement new programs rapidly) hindered GDOL's ability to test and implement system changes to the extent desired or possible under normal circumstances. Overpayments have since been established for the excessive amount paid for all claimants. The system was corrected on April 22, 2021.

(12) SEB and PEUC payments were received by 65 claimants for the same WED. GDOL Response: The issue was caused by system error. A unique confluence of circumstances (i.e., an avalanche of unemployment claims precipitated by a pandemic, implementation of multiple new programs, and public and political pressure to implement new programs rapidly) hindered GDOL's ability to test and implement system changes to the extent desired or possible under normal circumstances. The system was corrected on February 18, 2021. Establishment of overpayments is in progress.

(13) Federal Pandemic Unemployment Compensation (FPUC) payments were paid during a week in which the claimant was ineligible in 24 instances.

GDOL Response: GDOL disagrees with the findings related to FPUC payments were paid during a week in which the claimant was ineligible in 24 instances.

Upon reviewing a sample of the cases submitted by the auditors, the audit report is unfounded. Many of the claimants provided were paid as result of employer-filed claims and/or there is no evidence of disqualifications precluding the eligibility to receive FPUC payments.

(14) Lost wages assistance (LWA) payments were paid during a week in which the claimant was ineligible in two instances.

GDOL Response: GDOL disagrees with the findings related to Lost wages assistance (LWA) payments were paid during a week in which the claimant was ineligible in two instances.

Upon reviewing the cases submitted by the auditors, the audit report is unfounded. One claimant was paid as result of employer-filed claims and the other showed no evidence of disqualification precluding the eligibility to receive LWA payments.

2021-035 Improve Controls over Eligibility Determinations (continued)

Summary

The information above is provided for your consideration in dispelling some of the audit findings. GDOL took immediate action to establish the federal UI programs and comply with federal guidance and regulations.

As system deficiencies were identified, changes were made as quickly as possible to mitigate risks of improper payments. Beginning July 2020, all automation of PUA claim review was suspended and each claim was manually reviewed by staff before a determination was released.

GDOL established task forces to develop and implement strategies to address the ramped fraud attempts to bypass system and procedural safeguards.

Training on the CARES Act has been provided since implementation of the programs. Resource materials, memorandums and desk-aids are released, as appropriate with program changes and process enhancements. Additionally, when new applications are developed, processing changes made, and/or new staff are hired or moved into new roles, training is provided on the subject matter, as appropriate.

Prioritizing system changes was challenging with the time constraints, necessity to build a program based on an establish program that operated manually in our state and the demands of all other federal UI programs but GDOL made every attempt to maximize our system capacity to accommodate the guidelines of each program requirements.

Georgia DOL greatly appreciates your time and consideration of our response to the findings and welcome you to contact us if you have any questions.

Estimated Completion Date: June 30, 2021

Contact Person: Crystal Singleton, UI Policy and Procedures

Telephone: (404) 232-3180; E-mail: Crystal.Singleton@gdol.ga.gov

2021-036 Improve Controls over Employer-Filed Claims

Federal Agency: U.S. Department of Labor

State Entity: Department of Labor

Corrective Action Plans:

The Georgia Department of Labor concurs in part and submits the following:

The Employer Filed (Partial) Claims (EFC) program originated in the late 1960's and was designed to allow employers with short term, temporary periods of lack of work for their employees to retain their workforce when work resumes. This is a program that many large manufacturers in Georgia rely on when they have temporary plant shutdowns and have for decades. When GDOL has attempted in the past to limit this program, we have met strong resistance from Georgia's manufacturers.

2021-036 Improve Controls over Employer-Filed Claims (continued)

This program optimizes our ability to process and pay mass numbers of claims more quickly, such as what occurred at the beginning of the pandemic.

EFCs may be filed by an employer with respect to any complete pay-period week during which an otherwise full-time employee works less than full-time, due to lack of work only, and earns an amount not exceeding his/her unemployment insurance weekly benefit amount. Such claims shall not be submitted or allowed for vacation days regardless of whether such vacation days were requested by the employee or established by the employer.

Effective March 19, 2020, a temporary, Emergency Rule 300-2-4-05(1), containing Rule 300-2-4-.09(1) was signed which required employers to electronically submit EFCs on behalf of their employees whenever it is necessary to temporarily reduce work hours or there was no work available for a short period of time. Employers were allowed to file such claims for full and part time employees whose earnings had been reduced. In July 2020, the Rule was sunset and employers were no longer required to file EFCs.

EFCs may be filed online by single entry or upload or paper. An employer may submit EFCs for regular state unemployment insurance programs including available extended benefits programs with the same eligibility requirements as regular UI, such as Pandemic Emergency Unemployment Compensation (PEUC) and State Extended Benefits (SEB), given all regular UI entitlement is exhausted.

By electing to submit EFCs on behalf of the individuals, the employer is responsible for attesting to the employment status and weekly earnings of the individual for the EFC submitted. An affidavit certifying that the employer has obtained earnings from other employment as well as other requirements must be completed before EFCs can be entered or uploaded.

Individuals for which EFCs are submitted are considered to be still attached to the employer and are exempt from the requirement to register for employment services per Georgia Employment Security Law Rules 300-2-4-.02. Such individuals are not required to be nor certify on a weekly basis to be able, available and actively seeking work.

Summary

Effective December 6, 2021, the EFC process was revised to require individuals (employees) to complete an EFC profile to include a real-time identity verification before payments can be made. Employers are responsible for submitting the request for the payment to certify to the individual's employment status but the individuals must certify their identity and personal information for the claim to be processed. Employees are notified when a claim is filed on their behalf and provided instructions for their portion of completing the EFC process. The MyUI dashboard provides all the EFC correspondence sent to the individual as well as a status of the profile set up and identify verification.

GDOL has no plans to stop utilizing the EFC program as it is an effective and popular program among employers with a successful 60-year track record.

2021-036 Improve Controls over Employer-Filed Claims (continued)

GDOL greatly appreciates the feedback and recommendations and will consider this information in future endeavors to modernize and update system and business processes.

Estimated Completion Date: December 6, 2021

Contact Person: Crystal Singleton, UI Policy and Procedures

Telephone: (404) 232-3180; E-mail: Crystal.Singleton@gdol.ga.gov

2021-037 Improve Controls over Financial Reporting

Federal Agency: U.S. Department of Labor

State Entity: Department of Labor

Corrective Action Plans:

In initial periods of COVID grant awards some of our allocations were modified to adapt to the crisis which necessitated timing adjustments. Despite severe short-staffing and exponential increase in volume during FFY ended 9/30/2021, GDOL created additional queries and reports to assure that PMS documents were appropriately reconciled to our ledgers. With the addition of these tools, all submitted ETA-9130 reports were correctly stated as of 9/30/2021.

As to the variances notated for these reports:

- UI312881855A13/UI31288BCO dated 12/31/2020, it was determined that the unliquidated balance was not expended during the grant period ending 12/31/2020. Since this grant was closed out on 2/3/2021, no additional entries are required.
- UI312881855A13/UI31288IKO dated 12/31/2020, it was determined that the unliquidated balance was not expended during the grant period ending 12/31/2020. Since this grant was closed out on 2/3/2021, no additional entries are required.
- UI347102055A13/UI34710Z70 dated 12/31/2020. It was determined that the Obligational Authority was reached; the adjustment amount was included on report UI347102055A13/ UI34710CIO dated 9/30/2021 which was also PEUC Administration.
- UI340532055A13/ UI34053V70 dated 12/31/2020. It was determined that the Obligational Authority was reached and the adjustment amount was included in the final report dated 12/31/2020.
- UI325941955A13/ UI32594Q11 dated 6/30/2021. It was determined that all of the expenses for the grant were recorded at PMS Doc# Q11 rather than splitting between PMS Doc #Q11 and PMS Doc #Q10 which are both PEUC Admin. On subsequent reports, PMS Doc Q11 is fully expended and PMS Doc Q10 is used to avoid duplication.

2021-037 Improve Controls over Financial Reporting (continued)

- UI347102055A13/ UI34710Z70 dated 6/30/2021. It was determined that the Obligational Authority was reached; however, the adjustment amount was included on report UI347102055A13/ UI34710CIO dated 9/30/2021 which was also PEUC Administration.
- UI34710205A13/ UI34710C80 dated 6/30/2021. An adjustment was recorded in the books in July 2021 and the expenditures were reflected on report UI347102055A13/ UI34710CIO dated 9/30/2021.

Corrective action implemented.

Estimated Completion Date: September 30, 2021

Contact Person: John Williams, Accounting Director II

Telephone: (404) 232-3577; E-mail: john.williams@gdol.ga.gov

2021-038 Improve Controls over the Identification, Recording, and Reporting of

Overpayments

Federal Agency: U.S. Department of Labor

State Entity: Department of Labor

Corrective Action Plans:

USDOL provides guidance and recommended procedures for crossmatches but does not dictate a frequency or cadence for performing them. The crossmatch process is conducted using vendor software which runs a systematic check against weeks in a quarter for which benefits are paid and wages are reported during the same quarter. Although the program may detect weeks paid and wages reported, this alone is not indicative of an overpayment. Therefore, the process involves verification correspondence being sent to both the claimant and the employer to verify the status of employment, the wages earned as well as the weeks in which an individual worked and earned the wages. Based on responses from both or either party, an assessment is made to determine if an overpayment exists and subsequent actions are taken accordingly. We are prohibited from assuming a match is an overpayment. It is not an overpayment until we have completed all the due process to the claimant.

The audit report indicates misinterpretation of the data reflected on the federal reports, specifically the ETA 227. The ETA 227 is for reporting of overpayment detection and recovery activities that the Agency performed in a quarter. It is not for reporting the amount of benefits overpaid for specific weeks during that quarter.

2021-038 <u>Improve Controls over the Identification, Recording, and Reporting of Overpayments (continued)</u>

The Department will take the necessary actions to complete the overpayment reconciliation for the ETA 227 reports and 902 reports at the end of the calendar year. Due to the volume of claims and the number of cross matches that needed to be performed on all state and federal pandemic programs, it would require multiples of current GDOL staffing levels to review all cross matches, requiring increase levels of state and federal funding. Federal regulations require an actual person to review and establish fraudulent overpayments.

Summary

GDOL has developed an aggressive plan to complete all remaining state and pandemic program cross matches. We have filled all of our budgeted positions for the Overpayment Unit and are utilizing non-overpayment staff to assist with identification and overpayment investigations. Additionally, we are utilizing temp agency staff to perform some clerical duties; however, federal regulations prohibit non-merit staff from adjudicating and releasing overpayment decisions. We are starting to freeze the overpayment data at the end of every month so that we can conduct periodic reconciliation of the overpayment records.

GDOL greatly appreciates the feedback and recommendations and will consider this information in future endeavors to modernize and update system and business processes.

Estimated Completion Date: December 31, 2022

Contact Person: Crystal Singleton, UI Policy and Procedures

Telephone: (404) 232-3180; **E-mail:** Crystal.Singleton@gdol.ga.gov

2021-039 Strengthen Logical Access Controls

Federal Agency: U.S. Department of Labor

State Entity: Department of Labor

Corrective Action Plans:

As was normal pre-pandemic, going forward the Information Technology division will continue to follow established user access reviews and continue to collaborate with business units to design more specific roles to align more closely with each user's role and daily tasks as appropriate.

- Completion of the global access monitoring for 2021 completed in December, 2021. The next scheduled annual transaction access review is December, 2022.
- Completion of the biennial role design review completed October, 2021. Future role design reviews will be completed biennially to insure transactions assigned to the role continue to be appropriate based on the job responsibilities and business functions of each individual.

2021-039 Strengthen Logical Access Controls (continued)

Estimated Completion Date: December 31, 2021

Contact Person: Lindsey Gardener, Information Technology

Telephone: (404) 232-7548; E-mail: Lindsey.Gardener@gdol.ga.gov

2021-040 Continue to Improve Internal Controls Activities over the Coronavirus Relief

Fund

Federal Agency: U.S. Department of the Treasury

State Entity: Office of the Governor (OPB)

Corrective Action Plans:

As part of the closeout process for the Coronavirus Relief Fund, OPB will continue to utilize its grant management system to review and disburse reimbursement to state agencies for any remaining spending and has notified any remaining local governments who received advance funding and did not provide adequate documentation of expense or their remittance requirements. OPB is in the process of recouping those funds to return to the federal government. Finally, for any future federal financial reporting, OPB will collect an official signature page from the Director of Administration attesting to his or her review of the underlying report prior to report submission.

Estimated Completion Date: June 30, 2022

Contact Person: Stephanie Beck, Deputy Director

Telephone: (678) 245-0675; **E-mail:** stephanie.beck@opb.georgia.gov

2021-041 Improve Controls over Subrecipient Monitoring

Federal Agency: U.S. Department of the Treasury

State Entity: Office of the Governor (OPB)

Corrective Action Plans:

OPB will improve documentation of risk assessment and audit review. During Fiscal Year 2021 and into Fiscal Year 2022, as additional subsequent federal covid assistance was authorized and received, OPB has established a dedicated grants management division, developed written grant guidance, policies, and procedures, and established a subrecipient risk assessment and ongoing monitoring program in coordination with an external audit partner.

2021-041 Improve Controls over Subrecipient Monitoring (continued)

The audit review program will utilize a risk assessment matrix based on program type, verify grantee's most recent Single Audit, reviewing relevant findings if any, perform desk audits and/or site visits as needed based on an awardee's risk assessment, and perform follow-up risk evaluations for any pre-qualified recipients participating in programs spanning multiple grant years.

Estimated Completion Date: June 30, 2022

Contact Person: Stephanie Beck, Deputy Director

Telephone: (678) 245-0675; **E-mail:** stephanie.beck@opb.georgia.gov

Summary Schedule of Prior Audit Findings



Brian P. Kemp





May 19, 2022

Mr. Greg S. Griffin, State Auditor Georgia Department of Audits and Accounts 270 Washington Street, S.W., Room 1-156 Atlanta, Georgia 30334-8400

Dear Mr. Griffin,

Enclosed with this letter is the State of Georgia's "Summary Schedule of Prior Audit Findings" (Schedule) for reporting in the Single Audit for fiscal year ending June 30, 2021. This Schedule is compiled by the State Accounting Office (SAO) based on answers provided by the respective State Organization. The State's Schedule reports the status, as of June 30, 2021, for all audit findings reported in the 2020 fiscal year Single Audit's "Schedule of Findings and Questioned Costs" and "Summary Schedule of Prior Audit Findings" that were not corrected. The findings are organized by finding type (financial statement and federal award), Federal Agency (if applicable), State Organization, and finding number (the finding number corresponds to the reference number that was reported in the prior fiscal year).

The State's Schedule satisfies the requirements as detailed in Title 2 U.S. Code of Federal Regulations, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance), Subpart F, Section 511 – Audit findings follow-up.

If you have any questions regarding this Schedule, please contact our Office.

Sincerely,

Gerlda B. Hines, CPA

Lerda B. Hives

State Accounting Officer

TABLE OF CONTENTS

FEDERAL	STATE	STATE	PAGE
AGENCY	ENTITY ¹	AGENCY	NUMBER
<u>FINANCIA</u>	L STATEMEN	NT FINDINGS UNDER GOVERNMENT AUDITING STANDAR	RDS ²
		Statewide	E-5
	405	Department of Public Health	E-5
	419	Department of Community Health	E-5
	427	Department of Human Services	E-5
	440	Department of Labor	E-5
	474	Department of Revenue	E-5
	548	Savannah State University	E-5
	927	State Road and Tollway Authority	E-5
FEDERAL	AWARD FIN	DINGS AND QUESTIONED COSTS	
U.S. DEPA	RTMENT OF	EDUCATION	
	533	Fort Valley State University	E-5
	548	Savannah State University	E-5
	551	Valdosta State University	E-7
	561	Atlanta Metropolitan State College	E-7
	820	Albany Technical College	E-9
	823	Atlanta Technical College	E-9
	830	Georgia Piedmont Technical College	E-10
U.S. DEPA	RTMENT OF	HEALTH AND HUMAN SERVICES	
	419	Department of Community Health	E-10
	427	Department of Human Services	E-15
	419 & 427	Department of Community Health and Department of	E-16
		Human Services	
	503 & 5036	Georgia Institute of Technology and Georgia Tech	E-17
		Research Corporation	
U.S. DEPA	RTMENT LAI	BOR	
	440	Department of Labor	E-18
U.S. DEPA	RTMENT OF	THE TREASURY	
	422	Office of the Governor	E-20
VARIOUS	FEDERAL A	GENCIES	
	503 & 5036	Georgia Institute of Technology and Georgia Tech	E-20
	_ 0 0 0	Research Corporation	
	554	University of West Georgia	E-21

 $^{^{\}rm 1}$ The entity number represents the control number that was assigned to each State entity.

 $^{^2}$ Financial Statement findings were previously released in the State of Georgia Single Audit Report Part I.

PRIOR FINANCIAL STATEMENT FINDINGS REPORTED UNDER GOVERNMENT AUDITING STANDARDS

Financial Statement findings were previously released in the State of Georgia Single Audit Report Part I. This report can be accessed on SAO's website: https://sao.georgia.gov/statewide-reporting/federal-compliance-reporting#toc-single-audit-report-andpresentations.

PRIOR FEDERAL AWARD FINDINGS AND QUESTIONED COSTS

2019-012 Improve Controls over the Verification Process

Federal Agency: U.S. Department of Education
State Entity: Fort Valley State University

Finding Status: Previously Reported Corrective Action Implemented

2020-013 Improve Controls over the Awarding Process

Federal Agency: U.S. Department of Education **State Entity:** Savannah State University (SSU)

Finding Status: Unresolved

SSU has made personnel changes and is working to identify the underlying causes of this deficiency and plans to enhance processes and procedures to ensure that student financial aid is properly determined. The University plans to have all new processes and procedures implemented by December 31, 2021.

2020-014 Strengthen Controls over Cost of Attendance Budgets

Federal Agency: U.S. Department of Education
State Entity: Savannah State University

Finding Status: Previously Reported Corrective Action Implemented

2020-015 Improve Controls over Special Reporting

Federal Agency: U.S. Department of Education
State Entity: Savannah State University

Finding Status: Previously Reported Corrective Action Implemented

2020-016 Strengthen Controls over the Verification Process

Federal Agency: U.S. Department of Education **State Entity:** Savannah State University

Finding Status: Previously Reported Corrective Action Implemented

2020-017 Improve Controls over the Return of Title IV Funds Process

Federal Agency: U.S. Department of Education

State Entity: Savannah State University (SSU)

Repeat of Prior Year Finding: 2016-034, 2015-016, 2014-033

Finding Status: Unresolved

SSU has made personnel changes and is working to identify the underlying causes of this deficiency and plans to enhance processes and procedures to ensure that student financial aid refunds are properly calculated and that unearned funds are correctly returned to the appropriate accounts. The University plans to have all new processes and procedures implemented by December 31, 2021.

2016-034 Return of Title IV Funds

Federal Agency: U.S. Department of Education
State Entity: Savannah State University (SSU)

Repeat of Prior Year Finding: 2015-016, 2014-033

Finding Status: Unresolved

See response to finding number 2020-017.

2015-016 Return of Title IV Funds

Federal Agency: U.S. Department of Education
State Entity: Savannah State University (SSU)

Repeat of Prior Year Finding: 2014-033

Finding Status: Unresolved

See response to finding number 2020-017.

2014-033 Return of Title IV Funds

Federal Agency: U.S. Department of Education
State Entity: Savannah State University (SSU)

Finding Status: Unresolved

See response to finding number 2020-017.

2020-018 Strengthen Controls over Enrollment Reporting

Federal Agency: U.S. Department of Education
State Entity: Savannah State University (SSU)

Finding Status: Unresolved

SSU has made personnel changes and is working to identify the underlying causes of this deficiency and plans to enhance processes and procedures to ensure student enrollment information is reported to required organizations in a timely and accurate manner. The University plans to have all new processes and procedures implemented by December 31, 2021.

2020-019 Improve Controls over the Awarding Process

Federal Agency: U.S. Department of Education
State Entity: Valdosta State University

Finding Status: Previously Reported Corrective Action Implemented

2020-020 Improve Controls over the Awarding Process

Federal Agency: U.S. Department of Education
State Entity: Atlanta Metropolitan State College

Finding Status: Partially Resolved

The College has had turnover in key positions during FY2021. As such, we have hired in College Aid Services. The finding will be resolved by October 11, 2021.

2020-021 Strengthen Controls over the Return of Title IV Funds Process

Federal Agency: U.S. Department of Education
State Entity: Atlanta Metropolitan State College

Repeat of Prior Year Finding: 2017-027

Finding Status: Unresolved

The College has had turnover in key positions during FY2021. As such, we have hired College Aid Services. The finding will be resolved by October 11, 2021.

2017-027 Return of Title IV Funds

State Entity: Atlanta Metropolitan State College

Finding Status: Unresolved

See response to finding number 2020-021.

2020-022 Improve Controls over Enrollment Reporting

Federal Agency: U.S. Department of Education

State Entity: Atlanta Metropolitan State College

Finding Status: Unresolved

The College has had turnover in key positions during FY2021. As such, we have hired College Aid Services. The finding will be resolved by October 11, 2021.

2020-023 Strengthen Controls over the Federal Direct Student Loans Reconciliation

Process

Federal Agency: U.S. Department of Education
State Entity: Atlanta Metropolitan State College

Repeat of Prior Year Finding: 2017-028

Finding Status: Previously Reported Corrective Action Implemented

2017-028 Federal Direct Loan Program Reconciliations

State Entity: Atlanta Metropolitan State College

Finding Status: Previously Reported Corrective Action Implemented

2019-015 Strengthen Controls over Enrollment Reporting

Federal Agency: U.S. Department of Education
State Entity: Albany Technical College

Finding Status: Unresolved

Faculty have received more training and reminders to report withdrawals by their Deans and the Vice President of Academic Affairs. Financial Aid has been reporting withdrawals from the list of students with no passing grades to National Students Loan Data System (NSLDS) directly while Technical College System of Georgia (TCSG) works with the National Student Clearinghouse to correct the data pull issue that we are experiencing. Beginning February 2022, alerts will be sent out on a biweekly basis reminding faculty to review those students not in attendance to ensure the timely calculations of R2T4, as well. The Technical College plans to have all new processes and procedures implemented by February 7, 2022.

2018-019 Strengthen Controls over the Awarding Process

Federal Agency: U.S. Department of Education
State Entity: Atlanta Technical College

Finding Status: Partially Resolved

The Institution has worked with the Technical College System of Georgia to address all deficiencies noted. The awarding and disbursement rules within the student information system have been reviewed and modified to ensure that students are awarded and disbursed the appropriate Direct Student Loan funds. In addition, an improved process for assigning cost of attendance budgets within the student information system has been developed. Furthermore, the satisfactory academic progress (SAP) module within the student information system has been reviewed and corrected to ensure that calculations are accurate. However, the Office of Financial Aid will work with other departments on generating reporting to identify grade and program changes to ensure the Office of Financial Aid is notified of these activities appropriately when calculating SAP.

2019-017 Improve Controls over Federal Work-Study Earmarking Requirements

Federal Agency: U.S. Department of Education

State Entity: Georgia Piedmont Technical College

Finding Status: Further Action Not Warranted

The Federal-Work Study (FWS) earmarking requirements were waived by the U.S. Department of Education (ED) for the year under review. ED exercised their authority under the HEROES Act to grant a waiver of the FWS community service requirements for the 2019-20 and 2020-21 award years to reduce the burden on schools as some community service employment opportunities may have been disrupted due to the COVID-19 pandemic. Because two years have passed since the audit report in which the finding initially occurred was submitted to the Federal Audit Clearinghouse, ED is not currently following up on the audit finding, and a management decision related to the audit finding was not issued, the audit finding is no longer considered to be valid and does not warrant further action by the Technical College.

2020-024 Improve Controls over Medicaid Capitation Payments for Managed Care

Recipients

Federal Agency: U.S. Department of Health and Human Services

State Entity: Department of Community Health

Repeat of Prior Year Finding: 2019-021

Finding Status: Previously Reported Corrective Action Implemented

2019-021 Improve Controls over Medicaid Capitation Payments

Federal Agency: U.S. Department of Health and Human Services

State Entity: Department of Community Health

Finding Status: Previously Reported Corrective Action Implemented

2020-025 Improve Controls over Medicaid Payments after Date of Death

Federal Agency: U.S. Department of Health and Human Services

State Entity: Department of Community Health

Repeat of Prior Year Finding: 2019-022

Finding Status: Partially Resolved

The Department ("DCH") modified its date of death processes within the Georgia Medicaid Management Information System ("GAMMIS") to either disallow or recoup payments made to Fee-for-Service providers when the submitted claim reflects a date of service after the member's date of death. DCH opened CSR #1563 on 8/26/2020. Through CSR #1563, GAMMIS began identifying Medicaid/PeachCare for Kids members on the Social Security Death Master File. Members who are identified as being on the Social Security Death Master file are removed from the list of active Medicaid/PeachCare for Kids members. Accordingly, only claims with dates of service prior to the date of death will process. CSR #1563 was implemented and moved into production on March 1, 2021. Upon subsequent review, we identified a defect with the quarterly automated date of death claims adjustments process. A defect was identified in the processes implemented under CSR #1561. Additional changes are needed to resolve the defect. Estimated Completion Date: 3/30/2022

2019-022 Improve Controls over Medicaid Payments

Federal Agency: U.S. Department of Health and Human Services

State Entity: Department of Community Health

Finding Status: Partially Resolved

See response to finding number 2020-025.

2020-026 Improve Controls over Medicaid Capitation Payments for Medicare

Members

Federal Agency: U.S. Department of Health and Human Services

State Entity: Department of Community Health

Repeat of Prior Year Finding: 2019-023

Finding Status: Partially Resolved

The Department ("DCH") is modifying "GAMMIS" to include processes to recoup capitation payments from the Care Management Organizations for Medicare eligible recipients when appropriate. Reason for Finding Recurrence: DCH opened CSR #1561 on 8/6/2020. Additional modifications are required before we can fully implement the process to recoup capitation payments for Medicare eligible recipients. Specifically, further work is needed regarding the removal of Part D Coverage when no Part A and Part B coverage exist.

2020-026 <u>Improve Controls over Medicaid Capitation Payments for Medicare</u> (continued)

We have requested technical assistance from Centers for Medicare & Medicaid Services (CMS) to obtain guidance regarding the removal of Part D data and the impact to the member's file in GAMMIS. Once this issue is resolved, a third party will move forward with creating the required change orders and tasks. Partial Corrective Action Taken: As previously noted, DCH opened CSR #1561, completed the Business Requirements Document, engaged in initial discussions with CMS, reviewed eligibility criteria with staff, and notified the Care Management Organizations of the upcoming changes. Planned Corrective Action Including Estimated Completion Date: Resolve all outstanding issues and concerns regarding Part D coverage through technical assistance with CMS, complete the technical design for the Buy-In-Bach change orders and fully implement. Estimated completion date June 30, 2022.

2019-023 Improve Controls over Medicaid Capitation Payments

Federal Agency: U.S. Department of Health and Human Services

State Entity: Department of Community Health

Finding Status: Partially Resolved

See response to finding number 2020-026.

2020-027 Improve Controls over Payments for Home and Community-Based Services

Federal Agency: U.S. Department of Health and Human Services

State Entity: Department of Community Health

Finding Status: Partially Resolved

The Department ("DCH") has opened an action item, which will incorporate additional edits in GAMMIS to prevent claims with overlapping dates of service from paying for Home and Community Based Services. The Department is on target for implementing the changes by mid-October 2021.

2020-028 Continue to Strengthen Application Risk Management Program

Federal Agency: U.S. Department of Health and Human Services

State Entity: Department of Community Health

Repeat of Prior Year Finding: 2019-024, 2018-026, 2017-037, 2016-044

Finding Status: Partially Resolved

Implementation of the previous Corrective Action Plan (CAP) is still in-progress. The Agency has identified and secured the necessary matching State funds along with approved Federal funds required to implement its CAP in order to fully remediate the audit finding by December 31, 2022. As a part of the remediation, the Agency is moving forward with acquiring the identified internal cybersecurity resources and contracted security services required to fully remediate the audit finding within the identified timeframe. DCH Cybersecurity continues to monitor Electronic Visit Verification (EVV) information security compliance through the following:

- Reviewed and approved the certification Security assessment report and Plan of Action and Milestones (POAM).
- Currently tracking the remediation of one moderate severity compliance gap. Security and privacy certification was approved by Centers for Medicare & Medicaid Services (CMS).
- EVV System Security Plan (SSP) and POAM was reviewed with Georgia Technology Authority (GTA) OIS. No additional security compliance recommendations were provided by GTA OIS.
- Working with EVV solution provider to implement a NIST compliant MFA solution for all privileged accounts.

2019-024 Continue to Strengthen Application Risk Management Program

Federal Agency: U.S. Department of Health and Human Services

State Entity: Department of Community Health Repeat of Prior Year Finding: 2018-026, 2017-037, 2016-044

Finding Status: Partially Resolved

See response to finding number 2020-028.

2018-026 Continue to Strengthen Application Risk Management Program

Federal Agency: U.S. Department of Health and Human Services

State Entity: Department of Community Health

Repeat of Prior Year Finding: 2017-037, 2016-044

Finding Status: Partially Resolved

See response to finding number 2020-028.

2017-037 Strengthen Application Risk Management Program

Federal Agency: U.S. Department of Health and Human Services

State Entity: Department of Community Health

Repeat of Prior Year Finding: 2016-044

Finding Status: Partially Resolved

See response to finding number 2020-028.

2016-044 Strengthen Application Risk Management Program

Federal Agency: U.S. Department of Health and Human Services

State Entity: Department of Community Health

Finding Status: Partially Resolved

See response to finding number 2020-028.

2020-029 Improve Controls over Inpatient Medicaid Payments

Federal Agency: U.S. Department of Health and Human Services

State Entity: Department of Community Health

Repeat of Prior Year Finding: 2019-025

Finding Status: Partially Resolved

The Department submitted a State Plan Amendment to the Centers for Medicare & Medicaid Services (CMS) which removed the requirement to perform field audits. The State Plan Amendment was submitted to CMS on April 4, 2021, and approved on June 21, 2021 with an effective date of July 1, 2021.

2019-025 Improve Controls over Inpatient Medicaid Payments

Federal Agency: U.S. Department of Health and Human Services

State Entity: Department of Community Health

Finding Status: Partially Resolved

See response to finding number 2020-029.

2020-030 Improve Controls over Medicaid Provider Eligibility

Federal Agency: U.S. Department of Health and Human Services

State Entity: Department of Community Health

Finding Status: Partially Resolved

On March 13, 2020, the President of the United States issued a proclamation that the COVID-19 outbreak in the United States constitutes a national emergency. The national Public Health Emergency, which has a retroactive effective date of March 1, 2020, is currently still in place. Under section 1135(b)(1)(B), Centers for Medicare & Medicaid Services (CMS) approved Georgia's request to temporarily cease revalidation of providers who are in Georgia or are otherwise directly impacted by the emergency. Although CMS has granted a temporary waiver, the Department, through its fiscal agent, continues to do outreach to providers to encourage providers to complete the revalidation process.

2020-031 Strengthen Logical Access Controls

Federal Agency: U.S. Department of Health and Human Services

State Entity: Department of Human Services

Finding Status: Previously Reported Corrective Action Implemented

2020-032 Strengthen Information Technology General Controls

Federal Agency: U.S. Department of Health and Human Services

State Entity: Department of Human Services

Finding Status: Partially Resolved

The general database settings are partially resolved. One of the items required additional testing prior to being promoted to the Production environment. The change will be applied to the Production environment by 4/30/2022. Additionally, the general database setting will be reviewed quarterly, and evidence of review completion stored electronically.

2020-033 Improve Controls over Medicaid Eligibility Determinations for Ex Parte

Members

Federal Agency: U.S. Department of Health and Human Services

State Entity: Various State Agencies:

Department of Community Health Department of Human Services

Repeat of Prior Year Finding: 2019-027, 2018-029

Finding Status: Partially Resolved

The finding reoccurred due to Division of Family & Children Services (DFCS) reporting all members who had not received a Continued Medicaid Determination (CMD) prior to the implementation of the automation in September 2020 had been completed; however, they had not been completed as reported. Partial action was taken when DFCS implemented the automated process, which was completed in September 2020. The majority of members who had not received a CMD prior to automation were completed at that time. For the corrective action, DFCS has identified the remaining members and has begun work on them. The estimated date of completion is 03/31/2022.

2019-027 Improve Controls over Medicaid Eligibility Determinations

Federal Agency: U.S. Department of Health and Human Services

State Entity: Various State Agencies:

Department of Community Health Department of Human Services

Repeat of Prior Year Finding: 2018-029

Finding Status: Partially Resolved

See response to finding number 2020-033.

2018-029 Improve Controls over Medicaid Eligibility Determinations

Federal Agency: U.S. Department of Health and Human Services

State Entity: Various State Agencies:

Department of Community Health Department of Human Services

Finding Status: Partially Resolved

See response to finding number 2020-033.

2020-034 Improve Controls over Medicaid Eligibility Redeterminations

Federal Agency: U.S. Department of Health and Human Services

State Entity: Various State Agencies:

Department of Community Health Department of Human Services

Finding Status: Partially Resolved

- The agency completed all the overdue renewals on the report that was created from Gateway in the last audit cycle. Since that time, the agency worked on correcting renewal reports that were displaying incorrect data and moved to a vendor created special query that was designed to capture all renewal case status regardless task assigned, case mode status and program. The agency is using only this report to complete work. The data found in the GAMMIS files did not show up in the agencies workload queries for renewals and thus, the agency did not know about these overdue renewals. These renewals were also not picked up in the COVID related renewal extensions, which is also a system issue.
- The agency corrected all the items that were known and discovered at the last audit cycle. The issue found in this audit cycle was new and has been assigned a defect number (117899). The agency met with the vendor and was able to determine the root cause and find the missing renewals. The issue was caused by limitations on the data query that was designed to improve performance of the database updates. The vendor is now exploring to see if any other issues may exist and feel confident that they can provide a corrected renewal query for the agency to use that will not result in overdue renewals not to be seen by the agency.
- The planned corrective action plan is to fix the data query and ensure the overdue renewals are assigned to workers when the Public Health Emergency lifts so that these renewals are completed. This process is expected to take about 90 days, which includes testing and execution. We estimate the completion date to be June 30, 2022.

2020-035 National Institute of Health Salary Cap Limitations

Federal Agency: U.S. Department of Health and Human Services

State Entity: Various State Agencies:

Georgia Institute of Technology Georgia Tech Research Corporation

Finding Status: Previously Reported Corrective Action Implemented

2020-036 Improve Controls over Eligibility Determinations

Federal Agency: U.S. Department of Labor

State Entity: Department of Labor

Finding Status: Partially Resolved

Training on the CARES Act has been provided since implementation of the programs. Resource materials, memorandums and desk-aids are released, as appropriate with program changes and process enhancements. Additionally, when new applications are developed, processing changes made, and/or new staff are hired or moved into new roles, training is provided on the subject matter, as appropriate. Modifications to the Pandemic Unemployment Assistance (PUA) application will be made to display existing information previously provided by the claimant on the most recent application for unemployment benefits. This is to remind the claimant of pre-existing information prior to allowing them to enter new information to be used when considering eligibility. Develop an automatic process to establish overpayments appropriately for individuals who fail to respond timely to requests for proof of employment and wages. The ability for claimants with the appropriate credentials to upload proof of documentation for PUA eligibility has been implemented. System and workflow processes are under development to detect responses as they are received. A ready to work indicator will be updated to Yes as documents are submitted. The system will maintain a counter from the date of notification to the deadline and initiate a workflow process to release a fail to report determination, adjust the monetary entitlement for the impacted period and establish overpayments, as appropriate. Estimated Completion Date: June 30, 2021

Claims where individuals were paid PUA before Pandemic Emergency Unemployment Compensation (PEUC) will be adjusted to move the claimant to the appropriate program. PEUC claims will be established, monetary determinations released and payments will be moved to the appropriate PEUC benefit year claim. When the PUA weekly benefit amount (WBA) is less than the PEUC WBA, then deficiency payments will be made for the appropriate weeks. Further, when the PUA WBA is more than the PEUC WBA, an overpayment will be established for the appropriate weeks. Estimated Completion Date: September 6, 2021

2020-037 Strengthen Logical Access Controls

Federal Agency: U.S. Department of Labor

State Entity: Department of Labor

Finding Status: Partially Resolved

The Corrective Action Plan has been implemented as originally scheduled. Going forward the Information Technology division will continue to follow established user access reviews and enhance the current annual transaction access review process. We will continue to collaborate with business units to design more specific roles to align more closely with each user's role and daily tasks as appropriate.

2020-038 Improve Controls over the Identification and Recording of Overpayments

Federal Agency: U.S. Department of Labor
State Entity: Department of Labor (GDOL)

Finding Status: Partially Resolved

The system is now in place to track and establish CARES Act overpayments. The list used to maintain a record prior to implementation is processed daily by staff to enter overpayments pending establishment. ETA 227 amended reports will be submitted for first impacted period through the current period at the time of implementation. ETA 902P amended reports will be updated appropriately going forward as overpayments are identified and recorded. Since the original response, Georgia has also taken the following actions: Implemented identity verification for all PUA claimants who received a payment after 12/27/20 as outlined in UIPL 28-20, Change 1 and Change 2. All claims filed must complete identity verification effective 5/26/21 before their claim can be processed and eligibility determined.

We have added additional staff in our UI Integrity Unit to investigate suspicions of fraud due to identity theft and the Overpayment Unit to investigate indications of overpayments and/or fraud related to matters not originated from identity theft. For example, returning to work and not reporting earnings. The administration that oversees the overpayment activities instituted a requirement for unit management to utilize the tool for tracking and billing overpayment recoveries adhoc reports to monitor unit and staff workload.

Programming to create overpayments and issue determinations for federal programs was implemented in February 2021. Automated processes have also been implemented for supplemental payments to be established appropriately when the parent UI payment is determined overpaid.

Georgia plans to take the following actions to address the auditor's recommendations:

- Vendor handling our overpayments, and GDOL's Information Technology (IT) personnel are working together to implement any remaining system modifications needed to support the identification, tracking and reporting of overpayments associated with the CARES Act UI programs.
- Workforce Statistics & Economic Research (WS&ER) will develop a process to perform overpayment system reconciliation at the time the ETA227 and 902 reports are being prepared to greatly reduce and/or eliminate reconciliation issues at year end.
- GDOL's Finance Department will record an allowance appropriate for uncollectible overpayments in accordance with the financial with overpayment generated data from the Host system. Program controls were in place prior to the pandemic and continued to be employed and applied to federal programs which included flagging claims indicating improper or potentially fraudulent payments for investigation.

2020-039 Follow Established Controls over the Benefits Accuracy Measurement

Program

Federal Agency: U.S. Department of Labor

State Entity: Department of Labor

Finding Status: Previously Reported Corrective Action Implemented

2020-040 Improve Internal Controls Activities over the Coronavirus Relief Fund

Federal Agency: U.S. Department of the Treasury
State Entity: Office of the Governor (OPB)

Finding Status: Partially Resolved

OPB has implemented a grants management system to allow fund recipients the ability to request reimbursement of expenses through a portal with supporting documentation of eligible expense. All disbursement requests are reviewed through a two-level process prior to the release of funds. For any future federal financial reporting, in order to facilitate documentation for audit review, OPB will subsequently collect an official signature page from the Director of Administration attesting to his or her review of the underlying report prior to report submission.

2020-041 Subrecipient Monitoring

Federal Agency: Various Federal Agencies:

Environmental Protection Agency

National Aeronautics & Space Administration

National Science Foundation

U. S. Agency for International Development

U.S. Department of Commerce U.S. Department of Defense U.S. Department of Education U.S. Department of Energy

U.S. Department of Homeland Security

U.S. Department of Health and Human Services

U.S. Department of the Interior U.S. Department of Transportation

State Entity: Various State Agencies:

Georgia Institute of Technology Georgia Tech Research Corporation

Finding Status: Partially Resolved

2020-041 Subrecipient Monitoring (continued)

Georgia Tech (GT) concurs with the recommendations for subrecipient monitoring. The GT Office of Sponsored Programs (OSP) plans to submit a critical hire request to the Georgia Tech Office of Human Resources (OHR) and the University System of Georgia (USG) for an audit manager/compliance officer to design and implement a subrecipient monitoring program as required by Uniform Guidance 2 CFR section 200.332. OSP will work with GT OHR to find the appropriate job description and complete the forms necessary to get the approvals required to post the position. The subrecipient monitoring program will include requesting and reviewing all required reports for current/active subrecipients, requesting alternative reports and analysis for subrecipients that are not required to complete an A-133 audit, implementing a risk analysis program for all future subrecipients, and revising our "Subrecipient A-133 Audit Certification Form" to include appropriate Uniform Guidance verbiage. Status: The Office of Sponsored Programs promptly requested posting of a Research Associate II position to create, implement and lead our subrecipient monitoring program. Please note that all job postings require numerous levels of approval at both Georgia Tech (GT) and the University System of Georgia (USG) prior to posting. Once a candidate is selected, numerous levels of approval at both GT and USG are again required, prior to extending a written offer letter to candidate selected. OSP has completed posting, interviewing and selection of candidate. We are now waiting for approval of written offer from USG.

OSP has requested an edit from the Office of General Counsel to update GT Research policy 5.3 with the current threshold of \$750,000 for subrecipients required to complete an A-133 audit. Status: Completed

OSP will conduct a thorough review of all subaward policies found in the GT policy library under "Research" policies 5.0 through 5.4 and edit as necessary to comply with recent updates to 2 CFR part 200 released in November 2020. Status: Completed

OSP will request that GT Purchasing delete its policies regarding subawards and provide a link to the Research policy to ensure that policies are in sync and don't provide conflicting guidance. Status: Completed

Target Date for Implementing Corrective Action: November 1, 2021

2019-031 Improve Controls over the Return of Title IV Funds Process

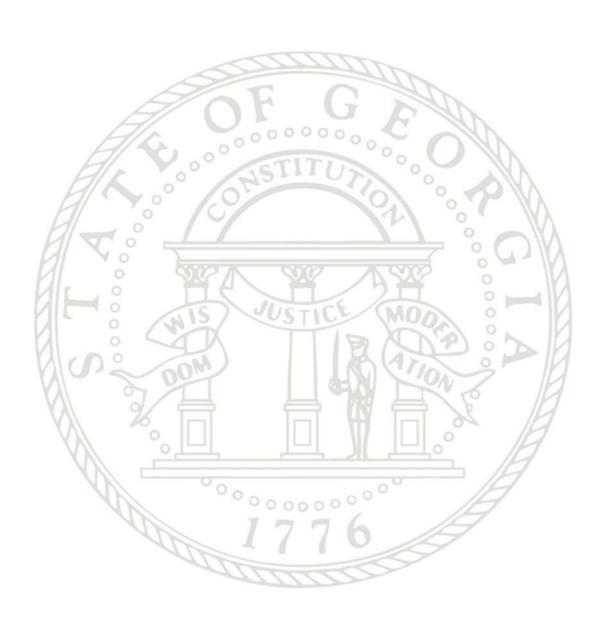
Federal Agency: Various Federal Agencies:

U.S. Department of Education and

U.S. Department of Health and Human Services

State Entity: University of West Georgia

Finding Status: Previously Reported Corrective Action Implemented



	STATE	
ORGANIZATIONAL UNIT	<u>ENTITY</u>	
Accounting Office, State	407	
Administrative Services, Department of	403	
Agricultural Commodities Commissions	93X	
Agricultural Exposition Authority, Georgia	926	
Agriculture, Department of	402	
Atlanta – Region Transit Link (ATL) Authority	996	
Audits and Accounts, Department of (*)	404	
Aviation Authority, Georgia	992	
Banking and Finance, Department of	406	
Behavioral Health and Developmental Disabilities, Department of	441	
Boll Weevil Eradication Foundation of Georgia, Inc.	930	
Building Authority, Georgia (*)	900	
Community Affairs, Department of	428	
Community Health, Department of	419	
Community Supervision, Department of	477	
Correctional Industries Administration, Georgia	921	
Corrections, Department of	467	
Defense, Department of	411	
Development Authority, Georgia (*)	914	
Driver Services, Department of	475	
Early Care and Learning, Department of	469	
Economic Development, Department of	429	
Education, Department of	414	
Environmental Finance Authority, Georgia (*)	928	
Financing and Investment Commission, Georgia State (*)	409	
General Assembly, Georgia (*)	444	
Geo. L. Smith II Georgia World Congress Center Authority	922	
Georgia Forestry Commission	420	
Governor, Office of the	422	
Higher Education Assistance Corporation, Georgia (*)	918	
Higher Education Facilities Authority, Georgia (*)	969	
Holocaust, Georgia Commission on the	495	
Housing and Finance Authority, Georgia (*)	923	
Human Services, Department of	427	
Insurance, Department of (1)	408	
Investigation, Georgia Bureau of	471	
Jekyll Island State Park Authority	910	
Jekyll Island Foundation, Inc.	993	
Judicial Branch	430	
Court of Appeals, Georgia	432	
Judicial Council of Georgia	434	
Juvenile Court Judges, Council of	431	
Prosecuting Attorneys' Council of Georgia (1)	418	

	SIAIE	
ORGANIZATIONAL UNIT	<u>ENTITY</u>	
Superior Courts, Georgia	436	
Supreme Court, Georgia	438	
Juvenile Justice, Department of	461	
Labor, Department of	440	
Lake Lanier Islands Development Authority	913	
Law, Department of	442	
Lottery Corporation, Georgia (*)	973	
Natural Resources, Department of	462	
North Georgia Mountains Authority	912	
OneGeorgia Authority	981	
Pardons and Paroles, State Board of	465	
Pension and Other Employee Benefit Trust Funds	1 0	
Augusta University Early Retirement Pension Plan	5127	
Employees' Retirement System of Georgia (*)	0 ,	
Regular	416	
Deferred Compensation 401 (K) Plan	n/a	
Deferred Compensation 457 Plan	n/a	
Defined Contribution Plan, Georgia	n/a	
District Attorneys' Retirement Fund of Georgia	946	
Judicial Retirement System, Georgia	n/a	
Legislative Retirement System, Georgia	n/a	
Military Pension Fund, Georgia	n/a	
Public School Employees Retirement System	468	
State Employees' Assurance Department	n/a	
Superior Court Judges Retirement Fund of Georgia	945	
Firefighters' Pension Fund, Georgia	950	
Judges of the Probate Courts Retirement Fund of Georgia	949	
Magistrates Retirement Fund of Georgia	991	
Peace Officers' Annuity and Benefit Fund of Georgia	947	
School Personnel Postemployment Health Benefit Fund, Georgia	360A	
Sheriffs' Retirement Fund of Georgia	951	
State Employees Postemployment Health Benefit Fund	360B	
Superior Court Clerks' Retirement Fund of Georgia (*)	948	
Teachers Retirement System of Georgia (*)	482	
Ports Authority, Georgia (*)	916	
Properties Commission, State	410	
Public Defender Standards Council, Georgia	492	
Public Health, Department of	405	
Public Safety, Department of	466	
Public Service Commission	470	
Public Telecommunications Commission, Georgia	977	
Regents of the University System of Georgia, Board of	472	
Abraham Baldwin Agricultural College	557	
Albany State University	522	
Atlanta Metropolitan State College	561	

	STATE	
ORGANIZATIONAL UNIT		
Augusta University	512	
AU Health System, Inc. (*)	5128	
Augusta University Foundation, Inc. and Subsidiaries (*)	5272	
Augusta University Research Institute, Inc. (*)	5126	
Georgia Health Sciences Foundation, Inc. (*)	5273	
Medical College of Georgia Foundation, Inc. (*)	5122	
Clayton State University	528	
College of Coastal Georgia (1)	563	
Columbus State University	530	
Dalton State College	569	
East Georgia State College (1)	572	
Fort Valley State University	533	
Georgia College & State University	536	
Georgia College & State University Foundation, Inc. and Subsidiaries (*)	5362	
Georgia Gwinnett College	540	
Georgia Gwinnett College Foundation, Inc. (*)	5365	
Georgia Highlands College	573	
Georgia Institute of Technology	503	
Georgia Advanced Technology Ventures, Inc. and Subsidiaries (*)	5038	
Georgia Tech Athletic Association (*)	5032	
Georgia Tech Facilities, Inc. (*)	5034	
Georgia Tech Foundation, Inc. (*)	5035	
Georgia Tech Research Corporation (*)	5036	
Georgia Military College	968	
Georgia Southern University	539	
Georgia Southern University Housing Foundation, Inc. and Subsidiaries (*)	5392	
Georgia Southwestern State University	542	
Georgia State University	509	
Georgia State University Athletic Association, Inc. (*)	5093	
Georgia State University Foundation, Inc. (*)	5091	
Georgia State University Research Foundation, Inc. (*)	5092	
Gordon State College (1)	576	
Kennesaw State University	543	
Kennesaw State University Foundation, Inc. (*)	5431	
Middle Georgia State University (1)	583	
Middle Georgia State University Real Estate Foundation, Inc. and Subsidiaries (*)	5841	
Savannah State University	548 -00	
South Georgia State College	588	
University of Georgia	518	
University of Georgia Athletic Association, Inc. (*)	5181	
University of Georgia Personal Foundation, Inc. and Subsidiaries (*)	5182	
University of Georgia Research Foundation, Inc. and Subsidiaries (*)	5184	
University of North Georgia Peal Estate Foundation, Inc. and Subsidiaries (*)	553 5450	
University of North Georgia Real Estate Foundation, Inc. and Subsidiaries (*) University of West Georgia	5452 554	
CHINCIAILY OF MEDICIEULEIG	224	

	STATE	
ORGANIZATIONAL UNIT	<u>ENTIT</u>	
UWG Real Estate Foundation, Inc. (*)	5543	
University System of Georgia Foundation, Inc. and Affiliates (*)	4721	
Valdosta State University	551	
VSU Auxiliary Services Real Estate Foundation, Inc. (*)	5512	
Regional Educational Service Agencies	00	
Central Savannah River Area RESA	8684	
Chattahoochee-Flint RESA	8724	
Coastal Plains RESA	8864	
First District RESA	8804	
Griffin RESA	8624	
Heart of Georgia RESA	8764	
Metropolitan RESA	8564	
Middle Georgia RESA	8644	
North Georgia RESA	8524	
Northeast Georgia RESA	8584	
Northwest Georgia RESA	8504	
Oconee RESA	8664	
Okefenokee RESA	8884	
Pioneer RESA	8544	
Southwest Georgia RESA	8844	
West Georgia RESA	8604	
Regional Transportation Authority, Georgia	976	
Revenue, Department of	474	
Road and Tollway Authority, State	927	
Savannah-Georgia Convention Center Authority	998	
Secretary of State	478	
Seed Development Commission, Georgia	919	
State Treasurer, Office of the	486	
Stone Mountain Memorial Association (*)	911	
Student Finance Authority, Georgia (*)	917	
Student Finance Commission, Georgia	476	
REACH Georgia Foundation, Inc. (*)	4761	
Subsequent Injury Trust Fund	489	
Superior Court Clerks' Cooperative Authority, Georgia (*)	955	
Technical College System of Georgia	415	
Albany Technical College	820	
Athens Technical College	822	
Atlanta Technical College	823	
Augusta Technical College	824	
Central Georgia Technical College	835	
Chattahoochee Technical College	827	
Coastal Pines Technical College	818	
Columbus Technical College	828	
Georgia Northwestern Technical College	829	
Georgia Piedmont Technical College	830	

	STATE	
ORGANIZATIONAL UNIT	ENTITY	
Gwinnett Technical College	832	
Lanier Technical College	834	
North Georgia Technical College (1)	838	
Oconee Fall Line Technical College	817	
Ogeechee Technical College	844	
Savannah Technical College	841	
South Georgia Technical College	842	
Southeastern Technical College	843	
Southern Crescent Technical College	831	
Southern Regional Technical College (1)	837	
West Georgia Technical College	826	
Wiregrass Technical College (1)	848	
Technology Authority, Georgia	980	
Transportation, Department of	484	
Veterans Service, Department of	488	
Workers' Compensation, State Board of	490	

⁽¹⁾ Organization has elected to use the 10% de minimis cost rate, see accompanying notes to the SEFA schedule for additional information.

^(*) Audits of these organizational units are performed in whole or in part by other auditors.