

# **University of South Carolina**

**Reports Required by *Government Auditing Standards*  
and the *Uniform Guidance***

***For the year ended June 30, 2019***

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# University of South Carolina

## Reports Required by *Government Auditing Standards* and the *Uniform Guidance* *Contents*

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**University of South Carolina**  
**Schedule of Expenditures of Federal Awards**  
**For the year ended June 30, 2019**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
<b>Research and Development Cluster</b>				
<b>US Department of Agriculture</b>				
A US-China Joint Program on Forestry Biomass Utilization for Sustainable Materials and Nanotechnologies	10.305	2011-51160-31205	\$ -	\$ 1,121
Identifying Maimaiga Source Strength	10.680	16-CA-11420004-129	-	(681)
Identifying Maimaiga Source Strength	10.680	17-CA-11420004-276	-	7,484
Improving Satellite Soil Moisture Spatial Resolution	10.001	58-8042-5-020	-	(223)
Molecular Characterization of Regulatory Factors Involved in Aspergillus flavus Development, Secondary Metabolism and Survival	10.001	58-6054-5-031	-	7,359
The CIG that Changed My Life? Capturing Value of Cover Crops and Soil Health	10.902	68-3A75-17-311	-	39,197
The Food Insecurity Experience Scale and Household/Individual Correlates of Food Insecurity	10.250	58-3000-5-0035	-	12,183
TOXIMAP: Computational Framework for Prediction of Geographical and Temporal Incidence of Mycotoxins in US Crop Fields	10.310	2017-67017-26167	-	29,352
Using Cover Crops and Soil Health to Reduce Crop Stress and Aflatoxin Contamination	10.912	69-4639-16-269	-	23,952
<b>Passed through programs from:</b>				
<b>Connecting Health Innovations, LLC</b>				
Developing the Use of the Dietary Inflammatory Index among Children (C-DII)	10.212	C-DII8152016	-	1,643
<b>Dillon Cty. Soil &amp; Water Conservation</b>				
Technical Support of Dillon SWCDs 2015 CIG Proposal Demonstrating Tillage and Cover Crop Management Strategies on a Corn-wheat-soybean Rotation	10.912	11510FB75	-	7,242
<b>SC Commission for Minority Affairs</b>				
Subcontract to SC Commission on Minority Affairs for USDA Community Food Projects Proposal	10.RD	11540FA90	-	7,530
<b>SC Department of Social Services</b>				
DSS SNAP - ED Evaluation	10.RD	4400010389	-	24,418
DSS SNAP - ED Evaluation	10.RD	4400017539	-	195,309
DSS SNAP - ED Evaluation	10.RD	4400019922	-	110,806
DSS SNAP - ED Evaluation	10.RD	4400019923	-	154,173
DSS SNAP - ED Evaluation	10.RD	4400019925	-	147,688
<b>SC Research Foundation</b>				
COPASities: Childhood Obesity Prevention in SC Communities	10.310	2012-69001-19615	-	8,296
Technical Assistance to City Roots for Conservation Innovation Grants	10.912	None	-	166
<b>The Regents of the University of California</b>				
A Comparative Study of the Narratives of Climate Change Vulnerability in the Volta River Delta of Ghana	10.777	016258-122	-	(24)
<b>University of North Carolina at Greensboro</b>				
Subcontract: Relative Caregivers in SNAP and Child-Only TANF Cases: Evidence from South Carolina Administrative Data	10.253	20150033	-	7,093
<b>Total US Department of Agriculture</b>			-	784,084
<b>US Department of Commerce</b>				
Building Adaptive Capacity in the Carolinas: The Carolinas Integrated Sciences & Assessments (CISA) Program	11.431	NA16OAR4310163	307,560	860,043
Caribbean Hogfish: Documenting Critical Life History Information for a Data-Poor Species in Collaboration with Puerto Rican Fishers	11.454	NA17NMF4540137	-	63,223
Conservation Genomics and Caribbean Fisheries Management: Stock Structure and Connectivity of Four Parrotfish Species and the Role of MPAs as Recruitment Sources	11.433	NA18NMF4330239	-	16,765
Continuing Support of the NERR Centralized Data Management Office	11.420	NA14NOS4200138	-	8,009
Continuing Support of the NERR Centralized Data Management Office	11.420	NA16NOS4200125	-	(2,386)
Continuing Support of the NERR Centralized Data Management Office	11.420	NA17NOS4200104	-	195,203
Continuing Support of the NERR Centralized Data Management Office	11.420	NA18NOS4200120	-	254,963
Evaluation of molecular analysis to identify and quantify ichthyoplankton samples	11.RD	1305M218PNFFN0048	-	3,491
Filling Critical Life History Information Gaps of Data-Poor Fisheries in U.S. Caribbean Waters: Age, Growth, and Reproduction of Queen Triggerfish and Four Species of Parrotfish	11.433	NA15NMF4330157	72,100	184,219
From Physics to Fisheries: a Social-Ecological Management Strategy Evaluation for the California Current Large Marine Ecosystem	11.431	NA17OAR4310270	-	16,673
Increasing Access to the North Inlet Winyah Bay National Estuarine Research Reserve for Researchers, Educators and Students	11.420	NA16NOS4200116	-	80,519
North Inlet - Winyah Bay National Estuarine Research Reserve	11.420	NA17NOS4200061	-	107,159
Novel Approaches to Age Validation in Data-Poor U.S. Caribbean Reef Fishes	11.427	NA18NMF4270203	7,251	16,673
The North Inlet-Winyah Bay National Estuarine Research Reserve	11.420	NA16NOS4200074	-	(63)
The North Inlet-Winyah Bay National Estuarine Research Reserve	11.420	NA18NOS4200009	-	509,198
<b>Passed through programs from:</b>				
<b>Clemson University</b>				
Quantifying responses of salt marsh productivity to environmental variability over multiple time scales using novel field measurements	11.417	2024-223-2022509	-	7,685
<b>Florida Department of Environmental Protection</b>				
Florida Coastal Water Quality Monitoring Data Assessment, Access and Training	11.RD	CM08P	-	95,579
<b>Louisiana State University</b>				
Dynamic sea level rise assessments of the ability of natural and nature-based features to mitigate surge and nuisance flooding	11.478	PO-0000010922	-	34,401
<b>Rutgers University</b>				
Exploring Mechanisms for Linking Climate Change, Long-Term Larval Fish Abundance, and Water Quality Monitoring Data for Fisheries Management Decisions	11.419	5087	-	1,902
<b>SC Department of Natural Resources</b>				
Evaluating Living Shorelines to Inform Regulatory Decision-Making in South Carolina	11.419	SCDNR FY2016-017	-	38,181
<b>SC Research Foundation</b>				
Carolinas Integrated Sciences and Assessments	11.431	NA11OAR4310148	83,518	177,365
Integrated Modeling for the Assessment of Ecological Impacts of Sea Level Rise	11.478	16206031-5	-	1,808
<b>SC Sea Grant Consortium</b>				
Advancing Understanding of Risk: Expanding the Use of Elevation Certificates in Damage Assessments and Resilience Planning	11.417	AMD9-A (R/RR-1)	-	1,328
Clonal Aging and the Molecular Basis for Sudden Marsh Dieback	11.417	N250	-	3,392
Development of a New Molecular Tool to Rapidly Detect and Quantify Harmful Algal Blooms (HABS) Caused by Cyanobacteria: Enhanced Early Warning to Safeguard Environmental and Public Health	11.417	N464 (R/ER-47)	6,766	6,766

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**Schedule of Expenditures of Federal Awards**  
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Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
<b>Research and Development Cluster, continued</b>				
<b>US Department of Commerce, continued</b>				
<b>Passed through programs from:</b>				
<b>SC Sea Grant Consortium</b>				
Development of Models for Phytoplankton-Nutrient Responses in Support of Numeric Nutrient Criteria for Estuarine Water Quality	11.417	R/ER-49	-	48,930
How Does Coastal Development Impact Groundwater Inputs to Estuarine Tidal Creeks	11.417	N463 (R/CP-21)	-	532
Innovative Fish Ageing Methods for Rapid Detection of Climate-Driven Changes in Population Demography	11.417	R/CF-23	7,015	51,128
Repeating Nonpoint Source BOD Loading to Land-Use and Stormwater Management Practices in Coastal South Carolina	11.417	R/CG-3	-	51,263
Subcontract to Building Regional Resilience to Water-Related Hazards in the Charleston, SC Region: A Charleston Resilience Network Initiative	11.473	R/CRN-1a	-	21,437
Vibrio Parahaemolyticus Virulence and Its Magnification in the Eastern Oyster, Crassostrea Virginica	11.417	N156	-	(175)
Vulnerability of Coastal Stormwater Management Ponds to Non-Stationarity and Compound Effects of Sea Level Rise and Inland Flooding	11.417	A/E-SG9	-	10,850
Vulnerability of Stormwater Management Ponds to Sea Level Rise and Flooding	11.417	A/E-SG8	-	15,583
<b>SE Coastal Ocean Observing Regional Association</b>				
Southeast Coastal Ocean Observing Regional Association (SECOORA): A Framework for Monitoring, Prediction and Assessment to Support Decision-Makers Needs for Coastal and Ocean Data and Tools: Maintain and Operate	11.012	IOOS.11(033)USC.GV.OBS.3	-	790
Southeast Coastal Ocean Observing Regional Association (SECOORA): A Framework for Monitoring, Prediction and Assessment to Support Decision-Makers Needs for Coastal and Ocean Data and Tools: Maintain and Operate	11.012	None	-	979
Southeast Coastal Ocean Observing Regional Association (SECOORA): A Framework for Monitoring, Prediction and Assessment to Support Decision-Makers Needs for Coastal and Ocean Data and Tools - Water Quality Modeling (Year 4)	11.012	IOOS.11(033)USC.DP.DMAC.5	-	1
Southeast Coastal Ocean Observing Regional Association (SECOORA): Supporting Resilient Ecosystems, Communities and Economies Operate and Maintain University of South Carolina IOOS Priority High Frequency Radars in SECOORA	11.012	IOOS.16(028)USC.OBS.1	-	78,005
Southeast Coastal Ocean Observing Regional Association (SECOORA): Supporting Resilient Ecosystems, Communities and Economies: Integrated Decision Support and Management Tools for Adaptive Public Health Practices: An Early Warning System	11.012	IOOS.16(028)USC.DP.MOD.1	4,146	94,535
<b>University of Michigan</b>				
A Collaborative Science Program for the National Estuarine Research Reserve System: With End Users Throughout the Applied Research Process	11.419	3003300692	-	33,628
From NECAP to GCAP: Transferring Climate Adaptation Knowledge and Tools from New England to Georgetown, SC	11.419	3004694006	33,659	58,550
<b>University of Oklahoma</b>				
Coping with Drought RISA Team Meeting	11.432	2017-08	-	5,081
<b>University of the Virgin Islands</b>				
Identifying & Defining Management Areas for Queen Triggerfish and Mutton Snapper Spawning Aggregation sites in the US Virgin Islands and Assessing Effectiveness of Area Closures	11.433	NA13NMF4330167	-	(3,747)
<b>Virginia Institute of Marine Sciences</b>				
NOAA MARFIN and CRP: Assessment of Maturity in Commercially and Recreationally Important Reef Fishes from the U.S. Virgin Islands and Puerto Rico	11.433	719583-712683	-	24,010
<b>Total US Department of Commerce</b>			<b>522,015</b>	<b>3,173,476</b>
<b>US Department of Defense</b>				
A New Generation of Acoustic Emission Smart Sensors	12.300	N00014-15-1-2102	-	175
Acquisition of State-of-the-Art 3D Dynamic Deformation Measurement System and Stereo-Microscope for Macro- to Micro-scale Studies with 200 Nano-second Temporal Resolution	12.800	FA9550-16-1-0623	-	103,000
Archaeological Phase I Survey 1500 Acres, Fort Bragg, North Carolina	12.300	21300FB10	-	212,054
Archaeological Testing at 14 Sites, Fort Bragg, North Carolina	12.300	W9126G1820060	-	180,983
Artifact Curation for the Charlesfort/Santa Elena Archaeological Collection	12.RD	M00263-14-P-0116	-	2,509
BA 2 (Pilot Study) Archaeological Mitigation Final Analyses and Reporting for Archaeological Sites 38RD837/841/843/844, located at Fort Jackson, South Carolina	12.300	None	-	6,041
Bubble/Vapor Slug Dynamics in a Confined Domain	12.300	N00014-16-1-2307	-	107,570
Distributed Condition Prognostics System for Navy Shipboard Machinery	12.RD	N000174-17-1-0006	1,657	74,984
Dysregulation of the PACT-mediated crosstalk between protein kinases PKR and PERK contributes to dystonia 16 (DYT16)	12.420	W81XWH1810088	-	128,527
Experimental and Analytical Study of Low Amplitude AE signals due to Rubbing/Clapping of Crack Faying Surfaces	12.300	N00014-17-1-2829	-	152,399
High Efficiency Micro/Nano-pillar UVC Light Emitting Diodes	12.431	W911NF-18-1-0029	-	96,906
Highly Effective Computational Methods in Geomagnetic Field Modeling	12.630	HM04761812002	-	162,322
High-Speed, Scalable, System Level, Real-Time Simulation	12.300	N00014-16-1-3042	-	88,845
How Inequality and Segregation Shape (and are Shaped by) Cooperation and Collective Action	12.431	W911NF1910281	-	2,936
Hypergraph-based Causal Modeling	12.300	N00014-17-1-2842	-	29,457
Number Theoretic Problems on Polynomials	12.901	H98230-14-1-0123	-	(1,287)
Number Theory Meetings in the Southeast	12.901	H98230-18-1-0233	-	7,572
Optimal Functionally Graded Cellular Materials (FGCMs) to Mitigate Shock and Impact Loading	12.431	W911NF-18-1-0023	-	82,654
Predicting Long-term Salt Marsh Response to Episodic Sediment Deposition Events Under Sea-level Rise	12.RD	W912HZ-16-2-0019	-	73,067
Predictive Sensing of Aerospace Composite Structures	12.800	FA9550-16-1-0401	-	98,578
Quantifying Multi-Scale Response of Engineered and Energetic Materials during Aggressive Conditions	12.800	FA9550-14-1-0209	-	47,683
Response of the Bay of Bengal to the Atmospheric Intraseasonal Oscillations	12.300	N00014-17-1-2468	-	91,871
The Pre and Post of Hardware in the Loop Experiments for Power Electronic Power Distribution Systems	12.300	N00014-19-1-2060	-	13,496
The Social Structural Foundations of Reputation, Cooperation and Prosocial Behavior	12.431	W911NF-15-1-0131	23,478	37,213
Understanding Gut-Microbiome links to Gulf War Illness persistence and development of gut-dysbiosis targeted therapy	12.420	W81XWH1810374	57,613	242,064
Upper Ocean Mixing Processes and Circulation in the Arabian Sea during Monsoons using Remote sensing, Hydrographic observations and HYCOM simulations	12.300	N00014-15-1-2591	-	146,433
<b>Passed through programs from:</b>				
<b>Benedict College</b>				
Novel MC/BZY Proton Conductor: Materials Development, Device Evaluation, and Theoretical Exploration using CI and DFT Methods	12.431	20-88502	-	3,183
<b>Boston University Research Accounting</b>				
Microbial Dysbiosis and Systemic Inflammation in Gulf War Illness	12.420	11510FB88	-	(7,343)

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<b>Research and Development Cluster, continued</b>				
<b>US Department of Defense, continued</b>				
<b>Passed through programs from:</b>				
<b>BrainScope Company, Inc</b>				
Objective Brain Function Assessment of mTBI from Initial Injury to Rehabilitation and Treatment Optimization	12.RD	04-2015 Sports	-	48,505
Objective Brain Function Assessment of mTBI from Initial Injury to Rehabilitation and Treatment Optimization	12.RD	12-2016 CAS VAL	-	19,132
<b>Brown University</b>				
Fractional PDEs for Conservation Laws and Beyond: Theory, Numerics and Applications	12.RD	Subaward No. 00000851	-	163,022
<b>Carnegie Mellon University</b>				
Near Real Time Assessment of Emergent Complex Systems of Confederates	12.300	1141302-385716	-	73,124
Online Transfer Learning and Self-Adaptation of Robots	12.300	1150139-406688	-	60,728
<b>CFD Research Corporation</b>				
A Design Automation Tool for Integrated Nanophotonics based on Compact Modeling and Model Order Reduction	12.RD	20160865	-	57,862
A Real-time Analysis Tool based on Surrogate Models for Accurate Prediction of Combined Flight External Loads	12.RD	9246	-	19,173
Algorithms and Module Development for Accurate and Rapid Load Analysis and Design of Experiments	12.RD	20180064	-	13,007
Model Order Reduction for Fast and Rapid Simulation of Human and Vehicle Thermal Signatures	12.RD	20190046	-	27,954
Multi-objective Evolutionary Algorithms for Surrogate-based Optimization of Multi-disciplinary Guided Weapon Systems	12.RD	9355	-	11,557
Online Machine Learning for Real-Time Monitoring and Control of Mechanical Systems	12.RD	20180377	-	5,827
<b>Booz Allen Hamilton</b>				
Conformal Multi-functional Structural Antenna	12.RD	1089595B3J	-	27,428
<b>Concurrent Technology Corporation</b>				
ONR Corrosion FNC REPAIR TOOL	12.RD	150200016	-	3,365
<b>Florida State University</b>				
Electric Ship Research and Development (ESRDC FY17-21)	12.300	R01851	-	1,155,687
ESRDC – Support for Undergraduate Research Participants	12.300	R02120	-	662
<b>George Mason University</b>				
Co-Arg: Cogent Argumentation System with Crowd Elicitation	12.RD	E2040772	-	20,125
<b>Georgia Institute of Technology</b>				
Leveraging a New Theoretical Paradigm to Enhance Interfacial Thermal Transport In Wide Bandgap Power Electronics	12.300	RK015-G2	-	134,726
<b>Georgia Southern University</b>				
Jekyll Creek Thin Layer Placement Evaluation and Analysis of Ecosystem Response	12.630	39G9579-001	-	23,569
<b>GTD Unlimited</b>				
System of Systems Control Interactions	12.RD	HQ0147-16-C-7606	-	2,971
System of Systems Control Interactions	12.RD	hq017-17-c-7110	-	102,939
<b>Intelligent Automation, Inc.</b>				
Predictive Condition-Based Maintenance for High-Powered Phased Array Radar Systems	12.RD	2201-3	-	16,156
<b>Northeastern University</b>				
Beyond the Cultural Horizon: Mapping Relational Norms Within Social Networks	12.431	504082-78050	-	127,194
<b>Physical Optics Corporation</b>				
Testing a Multilayered and Arrayed Fiber Optic Sensor Suite (MAFOSS)	12.RD	None	-	37,814
<b>Physical Sciences Incorporated (PSI)</b>				
Additive Manufacturing for Lithium-Ion Batteries	12.RD	SC 82121-4073-46	-	36,901
<b>Radiation Monitoring Devices, Inc.</b>				
Wide bandgap SiC based field effect transistor for radiation hard microelectronics	12.RD	C19-01	-	19,997
<b>SC Office of the Adjutant General</b>				
A Medium and Large Mammal Survey of the McCrady Training Center 2018	12.RD	4100074497	-	39,588
A Medium and Large Mammal Survey of the McCrady Training Center 2018	12.RD	4100079438	-	23,942
Delineation and National Register Evaluation of Cultural Resources for the Adjutant General - 2018	12.RD	4100074495	-	34,912
Medium and Large Wildlife Diversity and Abundance at the McCrady Training Site 2017-19	12.RD	4100079436	-	28,105
Unit history of the 122nd Engineer Combat Battalion	12.RD	21300FB13	-	11,500
<b>SC Research Foundation</b>				
Multiscale Mathematics for Nano-Particle-Endowed Active Membranes and Films	12.800	FA9550-12-1-0178	-	(15,126)
Phase II SBIR with Reify	12.RD	15540FD56	-	233,832
Predictive Sensing for Space Applications	12.800	FA9550-11-1-0133	-	16,972
<b>Tel Aviv University</b>				
Threat monitoring and behavioral health throughout the deployment and career cycles: A translational study	12.420	0610715871	-	34,553
<b>Texas Research Institute-Austin, Inc.</b>				
NDE based Condition Assessment of Sub-Surface Concrete with Limited Access	12.RD	F-30122-500-01-SC1701	-	43,898
NDE Based Condition Assessment of Sub-Surface Concrete with Limited Access – Phase II	12.RD	None	-	2,931
<b>The Ohio State University</b>				
AIN-Based Extreme Band Gap mm-wave Electronics	12.RD	60063064	-	243,058
<b>Universal Technology Corporation</b>				
Integrated Feature Detection and Tracking from Microscope Images of Composite Materials	12.RD	18-S7415-12-C1	-	1,287
Integration of NMR Interpretation Tool in Surrogate Formulation and High Pressure Laminar Flow Reactor for Species	12.RD	17-7900-0006-03-C2	-	94,274
Diagnostics in Jet Fuel Combustion	12.RD	15-S2606-04-C18	-	(300)
Reconfigurable Pixel Based Conformal Load Bearing Antenna Structures (CLAS)	12.RD	15-S2606-04-C18	-	(300)
<b>Virginia Tech</b>				
The Effect of Humidity and Partide Composition on Partitioning of Volatile Organic Compounds	12.431	45038819545	-	49,323
<b>Total US Department of Defense</b>			<u>82,748</u>	<u>5,236,066</u>

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<b>Research and Development Cluster, continued</b>				
<b>US Department of Interior</b>				
Appomattox Court House Historic Park CESU - Archaeological Survey of Hannah Reynolds Site	15.945	P17AC00668	-	34,734
Archaeological Research and Educational Program for the Southern Campaigns	15.945	P16AC01544	-	36,306
Boundary Definition and GPS Mapping: Parker's Ferry Battlefield	15.926	GA-2287-15-024	-	7,438
CESU Congaree National Park agreement (Environmental Research and Education Collaboration)	15.945	P13AC00443	-	2,706
Compilation of Total Fecal Coliform, E. coli and Enterococcus spp. Sampling at Southeastern Coastal National Parks	15.945	P18AC01339	-	3,083
Congaree National Park Historic Resource Survey	15.RD	P13AC00443	-	33,005
Congaree River Freshwater Mussel Habitat Survey	15.678	F17AC00529	-	3,639
Optimization of Marsh Restoration for Storm Surge Abatement and Sea Level Rise	15.677	F14AC01068	-	180
Sediment Trapping Program in the Gulf of Mexico	15.RD	G17PX00135	-	17,166
Upscaling Coastal Carbon Monitoring from Points to Polygons: Using Satellite Data to Improve Blue Carbon Monitoring and Verification in Wetland Sediments under REDD+	15.808	G15AC00094	-	(1)
<b>Passed through programs from:</b>				
<b>Clemson University</b>				
Human and Ecological Health Impacts Associated with Water Reuse: Engineered Systems for Removing Priority Emerging Contaminants	15.805	1827-216-2021030	8,986	7,663
<b>Louisiana State University</b>				
Phase 1: Modelling Hydrodynamics and Salinity in the Assateague Island and Chincoteague National Wildlife Refuge Region	15.677	PO-0000084537	-	29,814
<b>NC State University</b>				
Conservation Adaptation Planning for Landscape and Climate Changes in the Southeast	15.820	2014-3086-01	-	71,681
<b>SC Department of Archives &amp; History</b>				
Archaeological Survey Of Pre-Columbian Settlement On Hobcaw Barony	15.904	None	-	736
South Carolina Archaeology Month Poster 2018	15.RD	21300FL22	-	3,605
<b>SC Department of Natural Resources</b>				
Identification of Refuge Areas for Genetically Pure Redeye Bass Micropterus Coosae in Savannah Basin Streams	15.608	P24015405413	-	(54)
South Carolina Continental Shelf Seismic Data Extraction for Offshore Sand Resources: Data Inventory, Digital Data Conversion, and Needs Assessment	15.424	SCDNR FY2017-015	-	72,481
<b>SC Sea Grant Consortium</b>				
Atlantic Offshore Wind Energy Development: Geophysical Mapping, Oceanographic Data Collection, and Identification of Paleolandscapes and Historic Shipwrecks Offshore South Carolina	15.408	M15AC00001	-	928
Atlantic Offshore Wind Energy Development: Geophysical Mapping, Oceanographic Data Collection, and Identification of Paleolandscapes and Historic Shipwrecks Offshore South Carolina	15.408	R/BOEM-1c	-	914
<b>SC Research Foundation</b>				
Sediment Trapping Program in the Gulf of Mexico	15.RD	G11PX01039	-	(1,478)
Synthesis of High and Low Marsh Habitat Mapping and Responses to Sea-Level Rise in the South Atlantic Region	15.637	A130120-S002	-	(1)
<b>Total US Department of Interior</b>			<u>8,986</u>	<u>324,545</u>
<b>US Department of Justice</b>				
An Evaluation of a Social Interaction Training Program to Reduce the Use of Force and Build Legitimacy	16.560	2016U-CX-0018	117,486	204,651
Interconnecting PBIS and School Mental Health to Improve School Safety: A Randomized Trial	16.560	2015-CK-BX-0018	754,909	863,420
Youth Violence and Victimization: Predicting Responses to Peer Aggression	16.560	2016-R2-CX-0056	73,911	85,735
<b>Passed through programs from:</b>				
<b>City of Columbia</b>				
Ceasefire Columbia	16.RD	P174986	-	38,938
<b>Total US Department of Justice</b>			<u>946,306</u>	<u>1,192,744</u>
<b>US Department of Labor</b>				
<b>Passed through programs from:</b>				
<b>SC State Board for Technical &amp; Comprehension Education</b>				
Apprenticeship Carolina - ROI Analysis	17.268	4000034681	-	32,769
<b>Total US Department of Labor</b>			<u>-</u>	<u>32,769</u>
<b>US Department of State</b>				
Combatting Corruption in Conflict Countries (C-4)	19.703	S-INLEC18CA2071	103,860	143,444
Justice Sector Training, Research, and Coordination Plus (JusTRAC+) Program Project 1	19.703	SINLEC18CA2068	-	276,705
Justice Sector Training, Research, and Coordination Program (JusTRAC)	19.703	S-INLEC-14-CA-1034	-	1,155,017
<b>Passed through programs from:</b>				
<b>IREX-ULP</b>				
Capacity-Building in Faculty Instructional Strategies in Water Resources and Environmental Engineering	19.RD	FY16-IJLP-USC-01	-	(345)
<b>Total US Department of State</b>			<u>103,860</u>	<u>1,574,821</u>
<b>US Department of Transportation</b>				
High-Strength Reduced-Modulus High Performance Concrete (HSRM-HPC) for Prestressed Concrete Tie Applications	20.RD	DTRF53-14-C-00023	-	(7,797)
<b>Passed through programs from:</b>				
<b>Clemson University</b>				
Adaptive Signal System Safety Impacts	20.RD	1976-223-2012248	-	39,150
Center for Connected Multimodal Mobility	20.701	1919-211-2021810	-	149,348
<b>SC Department of Archives &amp; History</b>				
ArchSite IIB: Research and Support for Web-Based Archaeological & Historical Sites Geodata	20.RD	SCDAH/DOT	-	427
<b>SC Department of Transportation</b>				
Assessment of Structural Degradation for Bridges and Culverts	20.RD	Research Project No. 739	33,564	86,296
Development of a Users Manual for Application of the South Carolina Unit Hydrograph Method	20.RD	Research Project No. 738	-	45,454
Development of Pavement Design and Investigation Strategies for Non-Interstate Routes	20.RD	1946	-	43,588
Improving SCDOT Project Delivery through Identifying Potentially Suitable Locations for Mitigation and Standardizing Section 401/404 Permit Application Process	20.RD	2070	-	77,648
SPR 743: Pavement Performance Curves: Modeling Pavement Deterioration for SCDOT	20.RD	2120	-	25,765
SPR No. 742: Automatic Extraction of Vehicle, Bicycle, and Pedestrian Traffic from Video Data	20.RD	2087 (Project No. 742)	-	7,638
<b>Total US Department of Transportation</b>			<u>33,564</u>	<u>467,517</u>

**University of South Carolina**  
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Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
<b>Research and Development Cluster, continued</b>				
<b>Library of Congress</b>				
National Film Preservation Foundation Basic Preservation Grant: Buffington Collection	42.RD	FED13-041	-	30
NFFP Basic Film Preservation Grant for Weir Family Home Movies, 1930s 1950s	42.RD	FED16-032	-	3,170
<b>Total Library of Congress</b>			-	<u>3,200</u>
<b>National Aeronautics &amp; Space Administration</b>				
2C22 - TC3 - Design for Manufacturing (DFM) Software Development	43.RD	C16-2A38-USCAR	-	105,376
Connecting the Different Signatures of Interstellar Dust at Low Redshift: A Benchmark for Comparison to the Distant Universe	43.001	NNX17AJ26G	30,330	36,213
Connecting the Interstellar Gas and Dust Properties of Distant Galaxies	43.001	NNX14AG74G	-	78,175
Cooperation and adaptability in microbial mats from extreme environments: Quorum sensing and its relation to early life on Earth and elsewhere.	43.001	80NSSC18K1064	-	17,655
Determination of Available Water Capacity for the Mekong River Basin using model, satellite and ground observations	43.001	NNX14AO05G	-	7,142
Downscaling SMAP radiometer soil moisture for CONUS using vegetation and surface temperature	43.001	80NSSC18K0995	-	38,869
Effect of External Thermo-Convective Perturbation on Cool Flame Dynamics: A Multidimensional Multi-Physics CFD Analysis	43.007	NNX17AF97A	-	39,393
Evaluation of Risk and Capacity Development for Two Indian River Basins	43.001	80NSSC18K0433	-	54,796
FLEX-2 Augmentation Investigation	43.007	80NSSC17M0077	-	807
Improved Hydrologic Decision Support for the Lower Mekong River Basin Through Integrated Remote Sensing and Modeling	43.001	NNX16AT86G	-	42,886
Mathematical Modeling and Simulation of Space based Droplet Combustion - Scientific Support to the FLEX1 and FLEX2 Program	43.007	NNX14AG46A	-	20,537
Miniature Spatial Heterodyne Time-Resolved Raman Spectrometer (SHRS) for Planetary Surface and Subsurface Boreholes Mineralogy	43.001	NNX14AI34G	11,738	7
Multi-scale Computational Non-destructive Evaluation (NDE) for Composites	43.RD	NNL15AA16C	-	87,554
Oxygen Recovery via Carbon Dioxide Electrolysis with Microtubular Solid Oxide Cells	43.009	NNX14AB26G	-	(138)
Research Scientist in Automated Fiber Placement and Associate Technologies	43.RD	T18-606016-USCAR	-	139,514
TC1 2C19: High Energy Dynamic Impact	43.RD	C15-2A38-USC	-	215,031
Progressive Damage Analysis, Rapid Tools, Rapid Inspection, Closed-Loop Control of AFP Heating, and Bonding Surface Treatment and Inspection	43.RD	C16-2A38-USCAR	-	818,257
TC3 2C24: Closed -Loop Control of AFP Heating	43.RD	NNL09AA00A	-	290
Tow-Steered Panels for Tailored Wings	43.RD	T18-601030-USCAR	-	54,490
University Leadership Initiative: Hyper-Spectral Communications, Networking & ATM as Foundation for Safe and Efficient Future Flight: Transcending Aviation Operational Limitations with Diverse and Secure Multi-Band, Multi-Mode, and mmWave Wireless	43.002	NNX17AJ94A	959,956	1,472,570
<b>Passed through programs from:</b>				
<b>Applied Poleramic, Inc.</b>				
SBIR Phase II: Infusion Resins for Automated Dry Fiber Placement Products	43.RD	15540FD18	-	73,309
<b>CFD Research Corporation</b>				
An Intelligent Framework to Develop Adaptive Parametric Reduced Order Model Database for Aerostructural Control (CFDRC Project No. 9333)	43.RD	20180338	-	30,509
Multi-fidelity Surrogate Modeling for Multi-Source Data Consolidation (CFDRC Project No. 9335)	43.RD	20180339	-	28,812
Nonlinear Parameter-Varying Aerosevoelastic Reduced Order Model For Aerostructural Sensing And Control	43.RD	9172	-	44,502
Structural Dynamic and Aerodynamic Reduced Order Models for Aerospace Vehicles Applications	43.RD	20180168	-	5,376
<b>College of Charleston</b>				
Biomaterial implants for the prevention and treatment of microgravity induced muscle atrophy.	43.008	521192-USCGower	-	2,576
Biomimetic Scaffolds for Predicting Breast Cancer Metastasis in Microgravity	43.008	521179-RP-USCEhsan	-	23,263
Controls on Floodplain Circulation Defined by In Situ Observations, Numerical Simulations and Remote Sensing	43.008	521253-USC	-	164,203
Explore a Unified, Ultra-efficient, and Gravity-insensitive Flow Boiling Regime for Space Missions	43.008	521154-USC	-	27,479
Flying Lens Spectrometer for Planetary Exploration	43.008	521179-RP-SC003	-	1,190
Investigating the Role of the Southern Ocean on Global Climate Change using Satellite Observations and Model Simulations	43.008	521193-BF	-	17,347
Non-conventional Lightweight Composite Materials and Structures for Aerospace and Space Applications	43.008	521192-USCSockalingam	-	(920)
Novel 3D Semi-woven Fiber-reinforced Composite Architectures for Enhanced Impact and Damage Tolerance	43.008	521179-RP-SC002	-	8,680
Novel Microtubular Solid Oxide Electrolysis Cells to Support NASA's Planetary Exploration Missions	43.008	521179-RP-SC001	-	10,000
Satellite Observations of Marsh Dieback Events and Potential Environmental Influences along Coastal SC, 2000-2017	43.008	521192-USCWang	-	836
SCSGC: High-z and Gravitationally Lensed Supernovae (2018 SC Space Grant Consortium Graduate Research Assistantship)	43.008	521193-JRP	-	12,000
Stress Engineering to Develop High Power and High Energy Density Batteries for Next Generation Space Exploration	43.RD	521179-RP-USCZhou	-	34
Utilization of NASA's SMAP Salinity and GPM Precipitation for Indian Ocean Monsoon Studies	43.008	521193-SC002	-	1,337
<b>Global Technologies</b>				
Operation-Aware ISHM for Environmental Control and Life Support in Deep Space Habitats	43.RD	NNX17CA31P	-	49,034
<b>Jacobs Technology, Inc.</b>				
Development of a TSA Process for CO2 Removal Using a Structured 13X Adsorbent	43.RD	E562.12.01.LSS0.000.01	-	77,256
Development of a TSA Process for CO2 Removal Using a Structured 13X Adsorbent	43.RD	NNM12AA41C	-	(16,734)
Development of a TSA Process for CO2 Removal Using a Structured 13X Adsorbent: Part IV	43.RD	18N0661	-	110,208
Novel Pressure Swing Adsorption (PSA) Cycle to Facilitate Heavy Component (CO2) Enrichment and Recovery	43.RD	15N0052	-	(30)
<b>Rensselaer Polytechnic Institute</b>				
The DEEP Project: Detecting Extraterrestrial Piezophiles in Ocean World Analogs	43.001	A18-0010-S001	-	13,950
<b>SC Research Foundation</b>				
Downscaling of Passive Microwave Soil Moisture Using Vegetation and Surface Temperature	43.001	NNX12AP75G	-	47,245
Damped Lyman-alpha Systems in the Disks of Low-z SDSS Galaxies on Top of QSOs	43.RD	HST-GO-14137.004-A	-	35,731
FrontierSN3 : Third year of Frontier Fields Supernova Search	43.RD	HST-GO-14208.022-A	-	799
Probing Structure in Cold Gas at z < 1 with Gravitationally Lensed Quasar Sightlines	43.RD	HST-GO-13801.001-A	-	31,877
Star Formation and Molecular Gas in Distant Galaxies: SPIRE Spectroscopy of Quasar Absorption Systems	43.RD	1456904	-	801
Sub-damped Lyman-alpha Absorbers at z < 0.6: An Unexplored Terrain in the Quest for Cosmic Metals	43.RD	HST-GO-12536.01-A	-	3,711
The Stellar Continuum Light from Damped Lyman-alpha Absorber Galaxies Detected with Integral Field Spectroscopy	43.RD	HST-GO-13733.002-A	-	24,015
Turning Gravitationally Lensed Supernovae into Cosmological Probes	43.RD	HST-AR-15050.002-A	-	5,844
<b>Skyre, Inc.</b>				
Spacecraft Cabin Carbon Dioxide Removal	43.RD	15540FD90	-	43,806

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<b>Research and Development Cluster, continued</b>				
<b>National Aeronautics &amp; Space Administration, continued</b>				
Passed through programs from:				
<b>Smithsonian Astrophysical Observatory</b>				
AGNs Formed in Protogalaxies Associated with Sub-DLAs	43.001	G05-16098B	-	1
<b>Spectral Energies, LLC</b>				
Compact Kinetic Mechanisms for Petroleum-Derived and Alternative Aviation Fuels	43.RD	None	-	17,590
<b>The Regents of the University of California</b>				
Optimizing the WFIRST Type Supernova Survey	43.RD	A17-0899-P0632067	-	38,739
<b>Woods Hole Oceanographic Institution</b>				
Elucidating Spatial and Temporal Variability in the Export and Attenuation of Ocean Primary Production using Thorium-234	43.001	23175500	-	21,802
<b>Total National Aeronautics &amp; Space Administration</b>			<u>1,002,024</u>	<u>4,185,602</u>
<b>National Endowment for the Humanities</b>				
Evolution in Digital Discourse: Toward a Computational Tool for Identifying Patterns of Language Change in Social Media	45.169	HAA-261240-18	-	49,382
Examining Public Library Service to LGBTQ Communities for Health-related Information	45.313	RE-07-18-0066-18	-	36,727
META 2: Furthering Our Understanding of the Economic Value of Public Library Services	45.312	LG-96-18-0240-18	-	4,029
Technology, Listening and Labor: Music in New Hollywood Film (1968-1980)	45.RD	FEL-262699-19	-	10,284
The Revolutionary Era Pinckney Statesmen of South Carolina, A Digital Documentary Edition: Phase 3	45.RD	RQ-255751-17	-	122,183
Wanting to Be Wanted: Sophie Tucker and the Creation of a Show Business Legend	45.160	FZ-250455-16	-	65
Passed through programs from:				
<b>SC Humanities Council</b>				
Barnwell Archaeological Research Project	45.129	19-1902-1	-	5,000
Intimate Grammars: A Dinã@ (Navajo) Poetry Panel	45.129	None	-	505
<b>SC Research Foundation</b>				
Swag & Tassel: The Innovative Stoneware of Thomas Chandler	45.129	18-1808-1	-	7,000
Development and Validation of Infrared Spectroscopy as a Rapid, Non-destructive Tool for Determining the Degradation State of Magnetic Tape	45.312	LG-06-12-0569-12	-	(14,489)
<b>Total National Endowment for the Humanities</b>			<u>-</u>	<u>220,686</u>
<b>National Science Foundation</b>				
CAREER: Programming the Existing and Emerging Memory Systems for Extreme-scale Parallel Performance (Project Transfer from Oakland University to SC)	47.070	1833332	-	61,725
Comprehensive Models of Non-Covalent Aromatic Interactions	47.049	1709086	-	189,282
26TH NSF EPSCoR NATIONAL CONFERENCE: Science and Partnerships Across Disciplinary Boundaries	47.083	1841103	-	88,364
A New Method for Assessing the Magnitude and Impact of Shallow Seawater/Pore water Exchange in Salt Marsh Systems	47.050	1559274	-	58,371
Activation of C-H Bonds at Multinuclear Metal Sites	47.049	1764192	-	145,309
Algorithm Development for Reconstruction of Design Elements	47.075	1658987	-	84,053
An Integrated Framework for the Optimal Control of Vehicle-to-Grid Systems	47.041	1711767	36,169	94,555
Banach Spaces and Applications	47.049	1361461	-	2,291
Bifunctional Catalysts for Selective Hydrogenation of Biomass Derivatives: Furfural Hydrogenation over Pt-Sn Supported on Titania	47.049	1764164	37,741	131,483
Bioavailability of Arctic Soil Carbon: Examining the Relationship Between Chemical Composition and Lability During the Holocene	47.050	PLR-1417711	-	7,844
Building Tomorrow's Leaders: Bridging Workforce Development in ERCs to meet demand for a skilled workforce	47.041	1555449	-	(7,140)
Cancer Stem Cell Mechanotransduction in Engineered Matrix	47.041	CBET-1403545	-	(2,247)
CAREER: An All-Optical Plasmonic Device to Control and Coupled Quantum Dots for Optical and Quantum Information Processing	47.041	1652720	-	73,749
CAREER: Carborane Cluster Architectures Featuring Multiple Metal-Boron Interactions	47.049	1654301	-	145,791
CAREER: Detection and Quantification of Metal-Based Engineered Nanoparticles in Surface Waters	47.041	1553909	-	71,986
CAREER: Mechanism of Cytochrome P450 Alkene Biosynthesis	47.049	1555066	-	189,317
CAREER: Metal-Semiconductor Hybrid Core-Shell Heteronanostructures with Geometrically Tunable Optical Properties	47.049	DMR-1253231	-	128,099
CAREER: Multi-scale Modeling of Biological Gels by Coupling Langevin Equations and Fractional Viscoelastic Constitutive Models	47.049	1751339	-	22,204
CAREER: Quantifying the Response of Rivers and Floodplains to Changes in Climate and Land Use	47.041	1751926	-	39,173
CAREER: Revealing the Mechanisms that Determine How an Active DNA Transposable Element Impacts the Genome	47.RD	1651666	-	146,845
CAREER: The Fundamental Principles of Modified Carbon Fiber Microelectrodes as Speciation Sensors	47.049	1654111	-	159,273
CAREER: Tunable Isomorphous Architectures	47.049	1752615	-	112,597
CAREER: Uncertainty Quantification in the Rational Design of Bifunctional Catalysts	47.041	CBET-1254352	-	138,258
CAREER: Well-Defined Hybrid Materials as a Versatile Tool to Study Energy Transfer Processes	47.049	1553634	-	80,124
CBMS Conference: Additive Combinatorics from a Geometric Viewpoint	47.049	1743625	-	(1,260)
Collaborative Proposal: Impacts of Energy Extraction and Coal-Fired Power Plants on Disinfection By-Product Formation in Water	47.041	1438625	23,643	21,180
Collaborative Research: A Molecular-to-Continuum, Data-Driven Strategy for Mucus Transport Modeling	47.049	1410047	-	18,505
Collaborative Research: Assessing the relative importance of small vs large particles as sources of nutrition to abyssal communities	47.050	1829519	-	59,606
Collaborative Research: Fundamental Understanding of the Environmental Fate of Disinfection By-Products arising from Desalination Plants	47.049	1708461	-	68,072
Collaborative Research: A Contact Lens-Based Glucose Nanosensor Using Affinity Polymer-Functionalized Graphene	47.041	1509076	-	20,477
Collaborative Research: Advanced Zeolite-Composite Adsorbents with Fine-Tuned Pore Sizes for Molecular Sieving Separations	47.041	CBET-1402772	-	(214)
Collaborative Research: Affordable and Energy Efficient Engineered Earth Masonry for Seismic Resistant Low-Rise Buildings	47.041	1537776	-	71,050
Collaborative Research: Algebra and Algorithms, Structure and Complexity Theory	47.049	1500216	-	2,340
Collaborative Research: Building an International Component in the Aleutian-Alaska Primary Site through US Participation in Research Cruises of the German R/V Sonne	47.050	1551640	-	(2)
Collaborative Research: Capacity Building: Building a Cybersecurity Pipeline through Experiential Virtual Labs and Workforce Alliances	47.076	1822567	9,896	107,777
Collaborative Research: Deployment of Laser Induced Breakdown Spectroscopy System from ROV Jason	47.050	1829327	-	27,200
Collaborative research: Does Dissolved Organic Matter Influence the Concentrations and Distributions of Trace Elements in the Arctic Ocean?	47.050	1504137	-	(5,985)
Collaborative Research: Effects of Changing Temperature on the Gulf of Alaska Ecosystem	47.050	1558787	-	7,936
Collaborative Research: Efficient, Stable and Accurate Numerical Algorithms for a class of Gradient Flow Systems and their Applications	47.049	1720212	-	55,853

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<b>Research and Development Cluster, continued</b>				
<b>National Science Foundation, continued</b>				
Collaborative Research: Equipment for the PSI MUSE Experiment	47.049	1614773	-	121,944
Collaborative Research: Evolutionary Origins of Chiton Shell-eyes: Integrating Structure, Function, and Gene Expression within a Phylogenetic Context	47.074	1457148	-	61,108
Collaborative Research: Fate and Control of Naturally Occurring Radioactive Material (NORM) Produced by Unconventional Gas Industry	47.041	1509086	-	91,816
Collaborative Research: Generation of Internal Waves Due to the Scattering of Semidiurnal Hybrid Kelvin-edge Waves at Varying Continental Shelf Topography	47.050	1537449	-	60,372
Collaborative Research: GEOTRACES Arctic Section: Radium and Thorium Isotopes as Natural Geochemical Tracers in the Arctic Ocean	47.050	1458424	-	55,665
Collaborative Research: High Frequency Hydroclimate Extremes and Synoptic Climate Drivers in Western North America at the End of the Little Ice Age	47.050	1802018	-	9,188
Collaborative Research: How magnetic nanoparticles organize in extreme force gradients	47.049	1808426	-	90,504
Collaborative Research: I/UCRC on Grid-Connected Advanced Power Electronic Systems (GRAPES), Phase II	47.041	IIP-1439689	-	4,127
Collaborative Research: I/UCRC Phase I: Center for Rational Catalyst Synthesis	47.041	1464630	-	77,140
Collaborative Research: Investigating Initiation and History of the Aleutian Arc and Composition and Significance of North Pacific Seafloor via Dredge Samples from the R/V Sonne	47.050	1753518	-	93,860
Collaborative Research: Investigating the Fate of Carbon at an Ultraslow Spreading Center	47.050	1801036	-	9,775
Collaborative Research: Investigating the Lost City as an Ultramafic Urban Center of the Seafloor, Fueled by Energy and Carbon from the Mantle	47.050	1536702	-	173,880
Collaborative Research: Kinetic to Continuum Modeling of Active Anisotropic Fluids	47.049	1517347	-	58,017
Collaborative Research: Mathematics Graduate Student Peer-Mentorship Program: Impact and Adaptability	47.076	1725295	-	62,738
Collaborative Research: On the Origin of Atomic Layer Deposition Enhanced Activity and Stability of Nanostructured Cathodes for Intermediate-temperature Solid Oxide Fuel Cells	47.049	1464112	-	75,478
Collaborative Research: Reduced Order Modeling of Realistic Noisy Flows	47.049	1522672	-	9,596
Collaborative Research: RUI: Human Alteration of Sediment Delivery to the Coast, Legacies of Land Use, Coastal Wetland Accretion, and Future Vulnerability to Sea Level Rise.	47.074	1457622	-	35,832
Collaborative Research: SAVANT: Stable Atmospheric Variability and Transport	47.050	1733746	-	192,725
Collaborative Research: Scalable and Flexible Algorithms to Detect Structural Change in Complex Sequence Data	47.049	1722562	-	8,022
Collaborative Research: Socio-Linguistic Analysis of Cross-Cultural Encounters and their Outcomes	47.075	1823665	-	91,056
Collaborative Research: Study of Amyloid Protein Oligomerization using Microchannel Electrophoresis	47.041	1511562	-	50,443
Collaborative Research: SusChEM: Rational Design of Non-Precious Metal Catalysts for a Future Biorefining Industry	47.049	1565964	-	76,641
Collaborative Research: Teacher Leadership (T-Lead): Investigating the Persistence and Trajectories of Noyce Master Teaching Fellows	47.076	1758438	-	57,233
Collaborative Research: The Embeddedness of Indirect and Generalized Reciprocity	47.075	1626056	-	56,968
Collaborative research: The Role of pCO2 in the Astronomically-Paced Climatic Cycles of the Miocene	47.050	1702783	-	82,474
Collaborative Research: US GEOTRACES Arctic section; Nd and REE cycling in the Arctic Ocean	47.050	1458936	-	(537)
Collaborative Research: US GEOTRACES PMT: Sources and Rates of Trace Element and Isotope Cycling Derived from the Radium Quartet.	47.050	1736321	-	4,456
Collaborative Research: Water Concentration and Distribution in the Oceanic Lithosphere	47.050	1624315	-	68,140
CPS: Medium: Collaborative Research: Against Coordinated Cyber and Physical Attacks: Unified Theory and Technologies	47.041	1739886	-	56,705
CRII: CPS: Algorithms and Methodologies for Real-Time Decision-Making of Mission-Critical Structures Experiencing High-Rate Dynamics	47.070	1850012	-	5,960
CRII: SHF: Understanding The Role of Software Test Adequacy Metrics in Search-Based Test Generation	47.070	1657299	-	68,643
CSBR: Living Stocks Support for the Peromyscus Genetic Stock Center	47.RD	1755670	-	290,803
Cyberinfrastructure Center of Expertise	47.070	1829698	9,701	76,096
Developing Master Teachers through the South Carolina Science and Mathematics Teacher Leaders (SC-SMTL) program	47.076	DUE-1439842	-	646,180
DIMENSIONS: Links Between Spectral Irradiance and Cryptophyte Biodiversity in Environments from Ponds to Oceans	47.074	1542555	-	288,993
DMREF: Collaborative Research: Design and Discovery of Multimetallic Heterogeneous Catalysts for a Future Biorefining Industry	47.041	1534260	-	345,586
DMREF: Collaborative Research: Designing Optimal Nanoparticle Shapes and Ligand Parameters for Polymer-Grafted Nanoparticle Membranes	47.041	1629052	-	53,865
EAGER: Salicylic Acid Signaling in Plant Pathogen Interactions	47.074	1464527	-	3
Electrochemical Capture of CO2 and Instant Conversion into Syngas: A Combined Mechanistic and Engineering Approach	47.041	CBET-1401280	-	(8,079)
Enabling the Future: Scholarships in Computational Science	47.076	DUE-1259283	-	106,569
EPRI: On-demand Sweating-Boosted Air Cooled Heat-Pipe Condensers for Green Power Plants	47.041	CBET-1357920	-	(23,852)
Equilibrium Thermodynamics of Semiconductor Nanocrystal Ligand and Ion Exchange via Calorimetry	47.049	1613388	-	82,907
Evaluation of the Role of Size Dispersity on Nanoparticle Uptake and Ecotoxicity	47.041	CBET-1437307	-	910
Extremal and Probabilistic Combinatorics with Applications II	47.049	1600811	-	46,475
Facial Amphiphilic Antimicrobials Biomaterials Containing Fused Multicyclic Structures	47.049	1608151	12,820	109,953
Fast and Stable Compact Exponential Time Difference Based Methods for Some Parabolic Equations	47.049	1521965	-	20,123
Fluid and Chemical Fluxes Across the Seafloor of a Passive Margin	47.050	EAR-1316250	-	26,152
Formation of Environmentally Persistent Free Radicals on Engineered Nanomaterials During Thermal Treatment	47.041	1834638	-	5,111
Fractional PDEs and related nonlocal models: fast numerical methods, analysis, and application	47.049	1620194	-	26,731
From Soybean Oil to Commodity Biobased Fatty Alcohols and Vinyl Monomers	47.041	1661937	-	(82)
Functional Organic Nanotubes from Self-Assembled Bis-Urea Macrocycles	47.049	1608874	-	94,947
Fundamentals of a New All Solid-state Metal-air Redox Battery Operated on Oxide-ion Chemistry	47.041	1801284	-	47,369
General Strategies Toward Mechanically Robust Biobased Polymers and Composites	47.049	1806792	-	123,160
GEO-Scholar: Broadening undergraduate participation in the geosciences	47.076	1458416	-	102,106
GOALI: Collaborative Research: Electrochemical CO2 Separation and Capture through Design of Carbonate-Selective Catalysts and Ionomers	47.041	1803189	-	40,743
GOALI: Collaborative Research: Energy Harvesting Nanorods-enhanced MEMS Temperature-insensitive Gas Sensor for Combustion Monitoring and Control	47.041	1508139	-	68,013
Groundwater Sources of new N for Benthic Microalgal Production in the South Atlantic Bight	47.050	1736557	21,772	269,277
High Surface Free Energy Anchoring of Bimetallic Core Shell Particles	47.041	1511615	-	31,590
Hybrid Computational Methods and Algorithms for Complex Biological Systems	47.049	1620212	-	51,852
I-Corps: Therapeutic Composition of Natural Compounds for Wound Healing	47.041	1811949	-	(7,474)

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<b>Research and Development Cluster, continued</b>				
<b>National Science Foundation, continued</b>				
Identifying a New Circuit That Controls Feeding Behavior: Leptin and Serotonin Interactions	47.RD	1656626	-	205,371
IGERT: Functional Nanomaterials for Sustainable Energy Solutions	47.076	DGE-1250052	-	550,406
II-New: Acquisition of a Heterogeneous Team of Field Robots for Coastal Environments	47.070	1513203	-	48,670
Impact of Ocean Acidification on Planktonic Foraminifera in the California Current System during the Last 300 Years	47.050	1631977	-	228,280
Instrument Development: A Miniature, High-resolution, Stationary Grating Spatial Heterodyne UV Raman Spectrometer-Towards Miniature UV Raman Sensors and Raman on a Chip	47.049	CHE-1308211	-	3
Interaction of Nitrogen and Sulfur Species with Oxygen Carriers in Chemical Looping with Oxygen Uncoupling	47.041	1606874	-	44,435
Intergovernmental Personnel Act (IPA)- National Science Foundation	47.RD	EAR-1744664	-	91,650
Investigating the Balance of Passive and Active Mechanics in Vascular Remodeling: An Integrated Experimental and Computational Approach	47.041	1760906	-	96,624
Mathematical Modeling, Computational and Experimental Investigation of the Dynamics of Heterogeneity in Breast Cancer	47.049	1853365	-	28,514
Minority Carriers in Graphene/SiC Schottky Emitter Bipolar Phototransistors for High Gain Visible Blind UV Detection	47.041	1711322	-	37,307
Molecular Dynamics with Nuclear Quantum Effects: Bridging Classical and Quantum Regimes	47.049	1565985	-	155,222
MRI: Acquisition of a Small-angle X-ray Scattering Instrument	47.049	DMR-1428620	-	(1,732)
MRI: Acquisition of Time of Flight-Inductively Coupled Plasma-Mass Spectrometer to support multi-disciplinary research and training in South Carolina and Nationwide	47.041	1828055	-	197,500
Multidimensional Methods for Kinetics in Complex Materials	47.049	1707813	-	127,045
Mutational Variance of the Transcriptome and the Origins of Phenotypic Plasticity	47.074	1556645	-	116,806
Nanotips Induced Boundary Layer to Enhance Flow Boiling in Microchannels	47.041	CBET-1336443	-	(3,585)
Neutrino-less Double-Beta Decay with CUORE and the MAJORANA DEMONSTRATOR	47.049	1614611	-	294,119
New Lanthanide-Containing Silicate Fluoride Scintillators for Radiation Detection	47.049	1806279	-	158,154
Next Generation Raman: Developing a Monolithic Spatial Heterodyne Spectrometer for Multi-Scale Chemical Mapping in Marine Environments	47.RD	1829333	-	99,043
Nitrous Oxide Cycling in the Arctic Ocean from Stable Isotopic and Concentration Data	47.050	1927755	-	19,774
Nonlinear Approximation in Geometric, Harmonic and Anisotropic Settings with Applications	47.049	1714369	-	48,153
NRI: Collaborative Research: ASPIRE: Automation Supporting Prolonged Independent Residence for Elderly	47.070	1525900	-	3,605
NRI: Enhancing Mapping Capabilities of Underwater Caves using Robotic Assistive Technology	47.070	1637876	-	157,732
NRI: INT: COLLAB: SYNDROME: Synergetic Drone Delivery Network in Metropolis	47.041	1830512	-	9,431
NSF CCF-1551182 SHF:Small:Collaborative Research: Application-aware Energy Modeling and Power Management for Parallel and High Performance Computing (Project Transfer from Oakland University to University of South Carolina)	47.070	1833312	-	58,508
NSF EPSCoR Research Infrastructure Improvement (RII) Track 1	47.079	OIA-1317771	-	5,183
NSF Graduate Research Fellowship	47.076	DGE-1450810	-	5,667
NSF Intergovernmental Personnel Act (IPA) Assignment: Dr. George Voulgaris	47.RD	OCE-1725081	-	194,970
NSF-BSF: The Study of Nuclear Physics with Intermediate Energy Probes	47.049	1812382	-	251,822
Number Theory Meetings in the Southeast	47.049	1802259	-	10,100
Optimal Convergence Rates for hp-Adaptivity	47.049	1720297	-	78,650
Participation in the Construction and Operation of the CUORE and Majorana Neutrinoless Double-Beta Decay Experiments	47.049	PHY-1307204	-	928
PFI:AIR - TT: Biomimetic Composite for Segmental Bone Regeneration	47.041	1500242	-	(3)
Phase-field Models, Algorithms and Simulations for Multiphase Complex Fluids	47.049	DMS-1418898	-	5,029
Plasma Discharge in Liquids: Understanding the Initiation and Formation Mechanisms of Non-Thermal Plasma in Dense Medium	47.049	1707282	-	81,818
RAPID: Reconstruction of Hurricane Florence Flood Hydrograph (HF2H) for South Carolina's Critical Infrastructures Using Data Analytics Algorithms and In-situ Field Measurements	47.041	1901646	-	38,622
Rational Design of Surface Modified Nanoparticles for Modulation of Amyloid Protein Aggregation	47.049	1609939	-	145,452
Regularity and singularity formations in swarming and related fluid models	47.049	1853001	-	25,987
Regulation of Floral Growth and Patterning in Arabidopsis Thaliana	47.074	IOS-1354452	12,999	78,123
REU Site: Cradle to the Grave - CO2 Opportunities and Challenges	47.041	EEC-1358931	-	(10,980)
REU Site: Applied Computational Robotics	47.070	1659514	-	88,155
REU SITE: Collaborative Research: Integrated Academia-Industry Research Experience for Undergraduate in Smart Structure Technology (IAIRESST)	47.041	1659507	-	44,804
RI:Small:Collaborative Research: Why is automating the design of robot controllers hard, and what can be done about it?	47.070	1526862	-	87,121
RII Track 1: Materials Assembly and Design Excellence in South Carolina: MADE in SC	47.083	OIA-1655740	2,681,280	3,955,007
RII Track-2 FEC-Genome to fitness: An analysis of the stress response in Peromyscus	47.083	OIA-1736150	242,887	705,757
RII Track-4: Molecular Understanding of Salt-Induced Selective Aggregation and Selective Sorption of Dissolved Organic Matter to Natural Particles	47.083	1738340	-	105,268
RII Track-4: Using the cryopreservation and microfluidic technologies to engineer bottlenose dolphin ovarian function in vitro for testing marine contaminants? female reproductive toxicity	47.083	1832910	-	26,673
SaTC: CORE: Small: Collaborative: Enabling Precise and Automated Insecurity Analysis of Middleware on Mobile Platforms	47.070	1815144	-	4,419
SaTC: CORE: Small: Collaborative: Enabling Precise and Automated Insecurity Analysis of Middleware on Mobile Platforms	47.070	1856380	-	35,379
SBE-RCUK: Diet, Migration, and Health in the Context of Medieval Mortality Crises	47.075	1722491	-	44,690
SHF: Small: Collaborative Research: The Automata Programming Paradigm for Genomic Analysis	47.070	1421059	-	4,500
Spring School Series: Models and Data	47.049	1855853	-	18,281
Stability, Derived Categories, and Mirror Symmetry	47.049	1501813	-	9,384
Stable and Convergent Computational Algorithms for Current Density Imaging	47.049	1818882	-	20,040
Standardized Goodness of Fit Assessment and Power Computations in Structural Equation Models	47.075	1659936	-	137,920
Studies of the Activation and Functionalization of Hydrocarbons at Multinuclear Metal Sites in Transition Metal-Gold Complexes	47.049	1464596	-	21,449
Study on Localized Exponential Time Differencing Methods for Evolution Partial Differential Equations	47.049	1818438	-	15,198
Support for the Peromyscus Genetic Stock Center	47.074	1738774	-	(95,159)
SusChEM: GOALI: Drinking Water Safety and Sustainability: Identifying Key Chemical Drivers of Toxicity for Long-Term Solutions in the United States	47.041	1705206	18,408	69,193
SusChem: In-situ oligomerization to immobilize contaminants in groundwater.	47.049	1709786	-	118,412
Targeting of Salicylic Acid-Activated NPR1 by a Bacterial Type III Effector	47.074	1758994	-	290,842
Technique Development for Caffeinated Beverage Identification	47.075	1724426	13,033	42,229
The Development of Axion Software for CUORE	47.049	1747860	-	(922)
The Molecular Nature of Environmentally Persistent Free Radicals on Nanoparticles	47.083	1738337	-	68,155

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<b>Research and Development Cluster, continued</b>				
<b>National Science Foundation, continued</b>				
The Ninth Annual Graduate Student Mini-conference in Computational Mathematics	47.049	1748357	-	431
The Study of Nuclear Physics with Intermediate Energy Probes	47.049	1505615	-	86,239
Type I: University of South Carolina I-Corps Site for Entrepreneurship	47.041	1735728	-	24,965
Ultrawide bandgap AlGaN photodetectors for solar-blind UV detection and radiation monitoring	47.041	1810116	-	97,626
University of South Carolina Science and Mathematics Teachers Initiative Phase 2 (USC-SMTI P2): Continuing to Improve Teacher Preparation & Retention	47.076	1660700	5,000	224,649
UNS: Engineered Nanomaterial Impact on Long-Term Stability of MSW Landfill and Leachate Treatment Pond Geomembrane Liners	47.041	1510869	-	63,978
UNS: Novel Probes to Quantify the Relative Importance of Ion and Particle Uptake When Assessing Nanoparticle Bioavailability	47.041	1508931	395	18,549
UNS: Selective Catalytic Conversion of Syngas-Derived Dimethyl Oxalate to Ethylene Glycol: Mechanistic Insights from In-Situ Surface Vibrational Spectroscopy	47.041	1510157	-	(38,201)
Wikithetoria.com: A Knowledge Aggregator for the Social Sciences	47.070	1551458	-	19,126
WORKSHOP: Doctoral Consortium at the IEEE International Conference on Automatic Face and Gesture Recognition (FG 2018)	47.070	1829167	-	9,950
<b>Passed through programs from:</b>				
<b>Benedict College</b>				
Targeted Infusion Project: Infusion of Active and Problem-Based Learning for Teaching and Research in the Context of Transportation Disruptive Technologies	47.076	20-88854	-	18,883
<b>C&amp;B Tech</b>				
Novel semiconductor Warpage Measurement Device	47.RD	15540FD75	-	313
<b>Clafflin University</b>				
Targeted Infusion Project: Building an Interdisciplinary Geosciences and Geospatial Intelligence Curricula Through Applied Training in Mapping and Spatial Reasoning	47.076	24400FA30	-	5,433
<b>Clemson University</b>				
Digitization TCN: Collaborative Research: The Key to the Cabinets: Building and sustaining a research database for a global biodiversity hotspot	47.074	1774-206-2010242	-	(349)
NSF INCLUDES Statewide Consortium Supporting Underrepresented Populations in Precalculus by Organizational Redesign toward Engineering Diversity (SC:SUPPORTED)	47.041	1987-206-2012226	-	3,421
Radioluminescent Particles for Optical Mission in Optogenetics	47.083	1876-206-2011576	-	118,169
Subcontract for Clemson NSF Proposal: Novel Graphene-based Label-free Biosensor Arrays for Smart Health and Drug Discovery	47.041	1860-206-2011320	-	32,634
<b>Consortium for Ocean Leadership</b>				
Continental Crust Formation at Intra-Oceanic Arc: Arc Foundations, Inception and Early Evolution	47.050	T351A65	-	532
<b>MagAssemble LLC</b>				
SBIR Phase 2: Reducing Size and Cost of Optical Devices with Nanomanufacturing - A Novel Use of Disk Drive Technology	47.RD	13070FB50	-	9,025
<b>Marine Biological Laboratory (MBL)</b>				
LTER-Plum Island Ecosystems: Dynamics of Coastal Ecosystems in a Region of Rapid Climate Change, Sea-level Rise, and Human Impacts.	47.050	52684	-	118,208
<b>Medical University of South Carolina</b>				
R1I Track-2 FEC: Bridging Cognitive Science and Neuroscience Using Innovative Imaging Technologies	47.083	MUSC16-073-88357	-	45,096
<b>Morgan State University</b>				
Doping cubic boron nitride, an extreme material for power electronics and radiation detection	47.041	USC-183-02	-	39,061
<b>NC State University</b>				
STEM Teens: Examining the Role of Youth Educators in Informal Science Learning Sites Evaluation Plan	47.076	2018-2113-01	-	5,373
<b>Ohio University</b>				
Innovative Approaches for Enhancing Passive Water Management of Hydrogen Pump	47.RD	18430A	-	(3,078)
<b>SC EPSCoR/IDEA</b>				
FY18 RET Faculty Mentor Award	47.RD	18-RT06	-	2,000
<b>SC Research Foundation</b>				
CAREER: African American Father Engagement and Early Adolescents' Academic and Social Adjustment	47.075	BCS-1150963	-	2,479
CAREER: Integrated Modeling for Watershed Management	47.082	CBET-0846244	-	1,087
Career: Linking Microbial Phylogenetic and Functional Gene Diversity to Microbial Mat Ecosystem Function Following Environmental Disturbance	47.074	DEB-1149447	-	(9,085)
CAREER: Smart RF/Microwave Components Using Nano-Film Slow Wave Elements	47.041	ECCS-1253929	-	43,629
CAREER: Studying Flow Velocity Field in Nanofluidics with a Far-Field Nanoscopic Velocimetry	47.041	CBET-0954977	-	(849)
CAREER: Towards Multimodal and Multialgorithm Facial Activity Understanding by Audiovisual Information Fusion	47.070	IIS-1149787	-	13,026
Channel Properties Where Fluvial and Tidal Currents Meet	47.050	EAR-1053299	-	84
Collaborative Research: Pattern Transfer Nanomanufacturing with Magnetically-Recorded Nanotemplates	47.041	CMMI-1130636	-	881
Collaborative Research: Resilient and Sustainable Engineered Fiber-Reinforced Earthen Masonry for Windstorm Regions	47.041	CMMI-1131161	-	1
LTREB: Long Term Studies of Salt Marsh Primary Production	47.074	1654853	-	120,644
Natural Resin Acid-Containing Antimicrobial Materials: Synthesis and Mechanism	47.049	DMR-1206072	-	2,946
Rational Design of Selective Hydrodeoxygenation Catalysts for Organic Acids	47.049	CHE-1153012	-	547
Regulation of Genetic Recombination in Mammals	47.074	MCB-1157416	-	1
SHB:Type II(INT):Collaborative Research: Creating Learning Systems with Mobile Technology to Improve Coordination in Perioperative Services	47.070	IIS-1237080	-	61,307
<b>SC State University</b>				
SCAMP Phase III: Enhancing Opportunities to Transition Students into Successful STEM Pathways	47.076	15(2)-581051-SCAMP-USC-SC	-	997
SCAMP Phase III: Enhancing Opportunities to Transition Students into Successful STEM Pathways	47.076	17-581054-SCAMP-USC-SC	-	4,383
SCAMP Phase III: Enhancing Opportunities to Transition Students into Successful STEM Pathways	47.076	18-581054-SCAMP-USC-SC	-	26,702
<b>The Trustees of Columbia University in NYC</b>				
Participation of Susan Lang on Expedition 357 (offshore)	47.050	23(GG009393)	-	238
Participation of Susan Lang on Expedition 357 (offshore)	47.050	23(GG009393-01)	-	9,229
<b>The University of Nebraska-Lincoln</b>				
Development and Validation of a Retrospective STEM Interest Instrument for Youth: Partnering with Click2SciencePD	47.076	25-1714-0141-002	-	2,059
<b>University of Georgia Research Foundation</b>				
A Resource for Functional Genomics to Support Soybean Genetics and Breeding	47.074	RC371-288/S000906	486	105,119

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<b>Research and Development Cluster, continued</b>				
<b>National Science Foundation, continued</b>				
<b>Passed through programs from:</b>				
<b>University of Georgia</b>				
Subaward: A Genetic Resource for Gene Discovery in Soybean	47.074	RC371-229/S000765	-	549
<b>University of Kansas Center for Research</b>				
RII Track-2 FEC: Catalysis for Renewables: Applications, Fundamentals and Technologies (CRAFT)	47.049	FY2016-032	-	347,920
<b>University of Puerto Rico</b>				
RII Track-2 FEC: Center for a Sustainable Water, Energy, and Food Nexus (SusWEF)	47.083	2016-2017-003	-	431,253
<b>University of Washington</b>				
Macroevolutionary Analyses of Cranial Morphology and Function in Mammals	47.074	UWSC8979 - BPO#15818	-	192
<b>Villanova University</b>				
Collaborative Research: RUI: The Influence of Mangrove Invasion and Rising Temperatures on Belowground Processes in Coastal Ecosystems	47.074	525874	-	78,413
<b>Total National Science Foundation</b>			<u>3,126,230</u>	<u>19,084,820</u>
<b>SC EPSCoR</b>				
<b>Passed through programs from:</b>				
<b>Clemson University</b>				
GEAR: Development of Biomaterials Informatics for Human Cardiac Organogenesis	47.RD	2102-231-2012625	-	2,550
<b>Total SC EPSCoR</b>			<u>-</u>	<u>2,550</u>
<b>US Securities and Exchange Commission</b>				
Employee Assignment Agreement between Dr. Tanakorn Makaew of the Darla Moore School of Business and the US Securities and Exchange Commission	58.RD	US SECURITIES	-	(5)
<b>Total US Securities and Exchange Commission</b>			<u>-</u>	<u>(5)</u>
<b>US Department of Veterans Affairs</b>				
IPA Susan Wood: Neural Basis of Individual Differences in Fear Extinction	64.RD	18080FA82	-	3,286
VA/IPA	64.RD	544-D65001	-	1,937
IPA from the VA for Dr. Chris Wood	64.RD	544-D65010	-	(10,263)
VA/IPA - Julia Jacobs	64.RD	544-D75001	-	(960)
Modeling Individual Differences in PTSD	64.RD	544-D75013	-	99,720
IPA - HRV Biofeedback in Pain Patients: Pilot Intervention for Pain, Fatigue & Sleep	64.RD	544-D85007	-	14,579
VA IPA-Lisa Freeburg	64.RD	544-D85008	-	13,126
IPA for Kris Ford Kaigler	64.RD	544-D85009	-	69,729
IPA for Marlene Wilson	64.RD	544-D85010	-	31,903
IPA for Dr. Claudia Grillo	64.RD	544-D87013	-	18,728
Neural Basis of Individual Differences in Fear Extinction	64.RD	544-D95005	-	12,093
IPA for Frances Loyo-Rosado	64.RD	544-D95008	-	7,270
IPA	64.RD	544-D95009	-	6,229
IPA Devin Kellis: Neural Basis of Individual Differences in Fear Extinction	64.RD	544-D97001	-	17,955
IPA Modification - Lisa Freeburg	64.RD	U00026547	-	1,498
IPA for Xiaoming Yang	64.RD	WJB DORN VA MED	-	(5)
<b>Total US Department of Veterans Affairs</b>			<u>-</u>	<u>286,825</u>
<b>US Environmental Protection Agency</b>				
Analysis of Chemicals in Water	66.RD	EP-16-D-000132	-	49,429
Water Analysis and Reporting for Toxicological Research	66.RD	None	-	50,264
<b>Passed through programs from:</b>				
<b>SC Department of Natural Resources</b>				
Ground Subsidence Study using InSAR and Groundwater data in Georgetown, South Carolina	66.204	SCDNR FY2017-019	-	958
<b>Total US Environmental Protection Agency</b>			<u>-</u>	<u>100,651</u>
<b>US Nuclear Regulatory Commission</b>				
Experimental Testing and Evaluation of Boral Performance in Spent Fuel Storage and Transportation	77.RD	31310018C0003	-	169,011
University of South Carolina Excellence in Nuclear Engineering Fellowship Program	77.008	NRC-HQ-84-15-G-0022	-	98,370
<b>Total US Nuclear Regulatory Commission</b>			<u>-</u>	<u>267,381</u>
<b>US Department of Energy</b>				
A Novel Intermediate-Temperature Bifunctional Ceramic Fuel Cell Energy System	81.135	DE-AR0000492	-	(66,093)
A Transformational Natural Gas Fueled Dynamic SOFC for Data Center In-Rack Power	81.089	DE-FE0031671	-	203,739
AOI 2: Modularization of Ceramic Hollow Fiber Membrane Technology for Air Separation	81.089	ED-FE0031473	-	249,236
Center for Hierarchical Waste Form Materials (CHWM)	81.049	DESC0016574	534,072	1,206,540
Cost-effective, Thin-film SOFCs for Reliable Power Generation	81.089	DE-FE0031670	-	28,284
Demand-Driven Cyclic Archetypes	81.121	DE-NE0008567	143,009	269,050
Developing Accelerated Test Protocols and Tuning Microstructures of the Common Materials to Improve Robustness, Reliability, and Endurance of SOFC Cells	81.089	DE-FE0026097	32,111	60,531
Development of Lost Cost, Robust and Durable Cathode Materials to Support SOFC Commercialization	81.089	DE-FE0031176	-	171,747
Development of Multi-Axial Failure Criteria for Nuclear Grade SiC-SiC Composites	81.121	DE-NE0008792	-	305,716
Development of Next-Generation Heat Exchangers for Hybrid Power Generation	81.135	DE-AR0000958	-	56,502
Directed Synthesis of New Uranium Containing Materials: The Use of Functional Building Blocks as Synthetic Tools Coupled with Targeted Crystal Growth Methods to Create New Complex U(VI), U(IV) and U(III) Containing Materials	81.049	DE-SC0018739	-	84,346
Directed Synthesis of New Uranium Containing Materials: The Use of Functional Building Blocks as Synthetic Tools Coupled with Targeted Crystal Growth Methods to Create New Complex U(VI), U(IV) and U(III) Containing Materials	81.049	RMG086619B	-	(3,830)
Experimental Determination and Modeling of Used Fuel Drying by Vacuum and Gas Circulation for Dry Cask Storage	81.121	DE-NE0008273	73,621	481,874
Fundamental symmetries and nucleon interactions	81.049	DE-SC0019647	-	49,253
Grid Generation, Coupling Strategies, and Spatially-dependent Time Stepping for Ocean tidal/Estuary Systems and other ESM Components	81.049	DE-SC0016540	-	215,999

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<b>Research and Development Cluster, continued</b>				
<b>US Department of Energy, continued</b>				
Hadronic Parity Violation in Few-nucleon Systems	81.049	DE-SC0010300	-	73,223
Multimetallic Metal-Organic Frameworks as Tunable, Multifunctional Catalysts for Gas Phase Hydroformylation and Hydrogenation Reactions.	81.049	DE-SC0019360	15,974	160,295
Multipurpose, Radiation- and Temperature-Resistant Semiconductor Radiation Detectors for Advanced Process Monitoring and Nuclear Safeguards	81.121	DE-NE0008662	16,494	172,868
Neutrino and Flavor Physics at the Intensity Frontier (Neutrino Task)	81.049	DE-SC0010073	-	184,472
Neutrino and Flavor Physics at the Intensity Frontier (Neutrino Task)	81.049	None	-	6,758
Novel NDE Sensors, Waveforms, Models, and Algorithms for Cable Health Monitoring	81.121	DE-NE0008663	-	129,594
Phase Equilibria and Thermochemistry of Advanced Fuels: Modeling Burnup Behavior	81.121	DE-NE0008570	-	295,676
Research in Neutrinoless Double-Beta Decay	81.049	DESC0012612	-	123,368
Room Temperature Electrochemical Upgrading of Methane to Oxygenate Fuels	81.RD	DE-SC0018316	-	35,760
Search for Neutrinoless Double Beta Decay	81.049	DE-SC0018060	-	43,601
South Carolina Institute of Archaeology and Anthropology Cooperative Agreement: DE-EM0002875 Savannah River Archaeological Research Program	81.214	DE-EM0002875	-	338,875
South Carolina Institute of Archaeology and Anthropology/Savannah River Archaeological Research Program Cooperative Agreement: United States Department of Energy for FY2019 - FY2023	81.214	DE-EM0005182	-	489,715
Transport Behavior of Superconductors at High Dissipative Currents	81.049	DE-FG02-99ER45763	-	(11,044)
Using Crystallization to Control Filler Dispersion and Vice Versa in Polymer Nanocomposites	81.049	DE-SC0018135	-	60,429
<b>Passed through programs from:</b>				
<b>AccuStrata, Inc.</b>				
Combinatorial Discovery of Heterogeneous Catalysts Utilizing Emission Spectroscopy and Advanced Machine Learning	81.RD	15510FD17	-	45,147
<b>Acumentrics</b>				
Performance and Reliability Advancements in a Durable Low Temperature Tubular SOFC	81.RD	ATRXUSC101016	-	(45,675)
<b>American Institute of Chemical Engineers</b>				
Roadmap Development for RAPID. Intensified Process Fundamentals	81.RD	DE-EE0007888	-	55,505
<b>Ames Laboratory</b>				
Statement of Work for Institute for Cooperative Catalysis in Upcycling of Polymers (iCOUP)	81.RD	SC-19-490	-	45,561
<b>Arizona State University</b>				
High Temperature Ceramic-Carbonate Dual-Phase Membrane Reactor for Pre-Combustion Carbon Dioxide Capture	81.089	ASUB00000221 JP	-	43,549
<b>Atrex Energy Corporation</b>				
Next Generation Durable, Cost Effective, Energy Efficient Tubular SOFC	81.RD	ATRXUSC101016	-	12,881
<b>Battelle Energy Alliance, LLC</b>				
Aluminum-Clad Spent Nuclear Fuel Management	81.RD	207046	-	11,299
Catalysts Development for Water Splitting Reactions using Solid Oxide Electrolysis Cells (SOECs)	81.RD	216845	-	2,284
<b>Battelle Memorial Institute, Pacific NW</b>				
Nepheline Thermodynamic Model Creation and Validation	81.RD	301919	-	27,907
<b>Clemson University</b>				
Radionuclide Waste Disposal: Development of Multi-scale Experimental and Modeling Capabilities	81.049	1750-219-2020199	-	123,689
<b>General Atomics</b>				
Characterization and Modeling of Accident Tolerant SIC Cladding	81.121	4500068895	-	215,104
<b>Giner, Inc</b>				
Innovative bilayer microporous layer for PEM fuel cells	81.049	15510FD07	-	29,258
<b>Greenway Energy LLC</b>				
Subcontract Response to DE-FOA-0001647: High temperature reactor catalyst material development for low cost and efficient solar driven sulfur-based processes	81.RD	15510FC99	-	(15,189)
<b>Jefferson Science Associates, LLC</b>				
JSA/Jefferson Lab Graduate Fellowship Award 2017/2018	81.RD	JEFFERSON LAB	-	11,000
<b>Lawrence Livermore National Laboratory</b>				
Connecting ROSE to LLVM OpenMP Runtime with LLNL	81.RD	NO. B628717	-	49,553
Monolith Spatial Heterodyne Raman Spectrometer (mSHRS) Studies	81.RD	B635176	-	4,015
<b>Los Alamos National Laboratory</b>				
Predictive Modeling, Inverse Problems and Uncertainty Quantification with Application to Emergency Response	81.RD	435052	-	129,125
<b>Michigan State University</b>				
Degradation and Performance Studies of ALD Stabilized Cathodes	81.089	RC107812-USC	-	48,886
<b>NC State University</b>				
Microstructure Experiments-Enabled MARMOT Simulations of SIC/SIC-based Accident Tolerant Nuclear Fuel System	81.121	2016-2122-02	-	58,695
<b>RAPID Manufacturing Institute</b>				
MFES for High throughput Modular Process Intensified Gas Separation and Ion Exchange	81.087	DE-EE0007888-08.4	-	357,778
<b>Rensselaer Polytechnic Institute</b>				
A Novel Hollow Fiber Membrane Reactor for High Purity H2 Generation from Thermal Catalytic NH3 Decomposition	81.RD	A12188	-	172,910
<b>Savannah River Laboratory</b>				
Data Analysis, Computer Vision, and Machine Learning for Plutonium Canister Corrosion Surveillance	81.RD	G-SOW-A-02021	-	48,397
Data Analysis, Computer Vision, and Machine Learning G-SOW-A-02128	81.RD	G-SOW-A-02128	-	44,788
Development and Verification of WAAM	81.RD	G-SOW-01866	-	9,782
Development of ALGE code	81.RD	G-SOW-A-02012	-	(443)
Development of ALGE code	81.RD	G-SOW-A-02095	-	21,354
Development of the Hybrid Sulfur Cycle-Sulfur Dioxide Depolarized Electrolyzer	81.RD	G-SOW-A-02039	-	40,000
Development of the Hybrid Sulfur Cycle-Sulfur Dioxide Depolarized Electrolyzer (Pre-Req 2018-0000059)	81.RD	G-SOW-A-02129	-	7,354
Flow Loop and Getter Bed Simulation	81.RD	G-SOW-A-02066	-	89,266
Formation and Removal of Oxyhydroxides on Aluminum Spent Nuclear Fuel	81.RD	G-SOW-A-02017	-	48,559
Metal-Organic-Framework Glasses as Radioactive Contaminant Sequesters and Nuclear Waste	81.RD	UC150	-	18,584

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<b>Research and Development Cluster, continued</b>				
<b>US Department of Energy, continued</b>				
<b>Passed through programs from:</b>				
Metal-Organics-Framework Glasses as Rad Contaminant Sequesters and Nuclear Waste Forms	81.RD	G-SOW-A-2108	-	8,165
Oxyhydroxides Formation Studies and Removal Practices (Pre-req 2018-0000027) G-SOW-A-02125	81.RD	G-SOW-A-02125	-	3,988
Radiofrequency of Hydride Materials	81.RD	G-SOW-A-01877	-	47,669
Spatial Heterodyne Raman Spectroscopy Instrumentation Development for Saltstone Headspace Analysis	81.RD	G-SOW-A-02097	-	48,569
Support of the Modular Chemical Process Intensification Manufacturing Institute	81.RD	G-SOW-A-01937 (CEB00011)	-	33,632
Response to Statement of Work for Bioprocess Intensification	81.RD	G-SOW-A-01850	-	(87,167)
<b>SC Research Foundation</b>				
Fundamental Neutron Physics: Theory and Analysis	81.049	DE-SC0001473	-	132
Fundamental Neutron Physics: Theory and Analysis	81.049	DE-SC0015882	-	59,679
Science Based Nano-Structure Design and Synthesis of Heterogeneous Functional Materials for Energy Systems - Administrative Core (Parent Account)	81.049	DE-SC0001061	-	7,817
Theoretical Investigation of Heterogeneous Catalysis at the Solid Liquid Interface for the Conversion of Lignocellulosic Biomass Model Molecules	81.049	DE-SC0007167	-	124,556
Cyclus Community Manager	81.RD	185645	-	12,158
DIRC-based PID for the EIC Central Detector	81.RD	218624	-	10,252
Enriched Boron-Doped Amorphous Selenium Based Position-Sensitive Solid-State Thermal Neutron Detector for MPACT Applications	81.RD	120563	-	(8,509)
FNAL-USC-LBNE-ND-Aug14-v4	81.RD	619459	-	(4,124)
High Hydrogen content Epitaxial Graphene Hydride on SiC & High Cross-Section Cladding Coatings for Fast Neutron Detection	81.RD	00126542	-	(50,129)
Synergistic Membranes & Reactants for a Transformational Flow-Battery System	81.135	1231120	-	144,592
<b>SC Universities Research &amp; Education Foundation</b>				
Acoustic Emission Sensor Systems ISD Sensor Network Demonstration	81.RD	0000157239	-	1,554
Development of a Graduate Course on Nuclear Safeguards with a Module on Proliferation Risk Assessment	81.RD	B139032	-	(2,267)
Management of Nuclear Nonproliferation International Safeguards Graduate Fellowship Program	81.RD	B139029	-	389,254
Nuclear Energy Advisory Committee (NEAC)	81.RD	DOE001	-	40,947
Nuclear Energy Advisory Committee (NEAC)	81.RD	GS-10F-053AA PMIS III	-	112,032
USCA R&D SERS for Microparticles	81.RD	B139018	-	675
<b>SC Universities Research &amp; Education Foundation</b>				
Rickover Fellowship Program in Nuclear Engineering	81.RD	NRLF003	-	863,192
<b>Southern States Energy Board</b>				
Southeast Offshore Storage Resource Assessment (SOSRA)	81.089	DE-FE0026086	-	88,843
Southeast Offshore Storage Resource Assessment (SOSRA)	81.089	SOSRA-981-USC-2015-001rev	-	41,107
<b>The Pennsylvania State University</b>				
Novel Anion Exchange Membranes for High-Performance Fuel Cell Devices	81.RD	5972-USC-DOE-8433	-	75,054
<b>The Regents of the University of California</b>				
National Nonproliferation Field Data Center	81.RD	7335746	-	(8,769)
<b>The University of Nebraska-Lincoln</b>				
Online Monitoring System for Concrete Structures Affected by Alkali-Silica Reaction (ASR)	81.121	25-1120-0014-002	-	36,632
<b>University of Central Florida</b>				
GEARED - FEEDER: Foundations for Engineering Education for Distributed Energy Resources	81.087	DE-EE0006340	-	28,170
STEP/FEEDER: Strategic Expansion to Achieve GEARED Goals	81.087	16226104-08	-	6,615
<b>University of Connecticut</b>				
in situ Measurement and Validation of Uranium Molten Salt Properties at Operationally Relevant Temperatures	81.121	5649590	-	37,924
<b>University of Michigan</b>				
High Fidelity Ion Beam Simulation of High Dose Neutron Irradiation	81.121	3002964978	-	39
<b>University of Mississippi</b>				
Multimodal Nondestructive Dry Cask Basket Structure and Spent Fuel Evaluation	81.RD	16-10-022	-	126,667
<b>University of North Carolina at Chapel Hill</b>				
Research and Development for a Next Generation Ge-76 Double Beta-Decay Experiment	81.049	5108337	-	(1,497)
<b>University of Utah</b>				
CyclusIS: A Distributed Web-based Fuel Cycle Visual Analytics System	81.121	10041588-UofSC	-	(37,221)
<b>Utah State University</b>				
Separate Effects Tests and Modeling of Fuel Fracture and Cladding Rupture	81.121	200658-343	-	99,704
<b>UT-Battelle, LLC</b>				
Database Development and Modeling of Fuel-Fission Products in High Burnup Systems	81.RD	4000137480	-	19,349
Framework for a Molten Salt Reactor Thermochemical Database, Formalisms, and Tabulated Systems of Interest	81.RD	4000160938	-	117,929
<b>Vanderbilt University</b>				
High-dimensional Data-driven Energy Optimization for Multi-Modal Transit Agencies (HD-EMMA)	81.RD	UNIV60730	-	13,455
<b>Total US Department of Energy</b>			<u>815,281</u>	<u>9,528,075</u>
<b>US Department of Education</b>				
A Psychometric Investigation of Universal Screening for Social-Emotional Development in Preschool Using Parent and Teacher Informants	84.305	R305A150152	80,761	297,789
Application for Grants under the Centers for International Business (CIBE) Program	84.220	P220A140021-14A	-	103,257
Application for Grants under the Centers for International Business (CIBE) Program	84.220	P220A180009	-	178,978
Developing an online tutor for accelerating high school vocabulary learning	84.305	R305A130467	-	16,528
Morphological Awareness Test for Reading and Spelling (MATRS)	84.305	R305A170065	9,676	398,966
<b>Passed through programs from:</b>				
<b>Georgia Institute of Technology</b>				
Telerobotics Research	84.133	RE220-G1	-	(1,696)

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<b>Research and Development Cluster, continued</b>				
<b>US Department of Education, continued</b>				
<b>Richland County School District</b>				
Evaluation of Richland School District Two's Magnet Project: Full STEAM Ahead	84.RD	17002958/16005145/15005803	-	1,996
Evaluation of the Carolina Consortium for Enterprise Learning Project	84.416	15-008-A Revised	-	33,294
<b>SC Department of Education</b>				
Evaluation of South Carolina's State Systemic Improvement Plan (SCSSIP) Initiative	84.RD	15290FA20	-	6,655
<b>The University of Texas at Austin</b>				
A Comparison of Two Reading Interventions and Initial Evaluation of a Caregiver-Delivered Reading Intervention with ELL Students	84.RD	UTA 18-001510; 001533	-	2,234
<b>University of Wisconsin-Madison</b>				
A Comparison of Two Reading Interventions and Initial Evaluation of a Caregiver-Delivered Reading Intervention with ELL Students	84.305	183405335	-	(15,490)
<b>Total US Department of Education</b>			90,437	1,022,511
<b>National Archives &amp; Records Administration</b>				
Papers of the Revolutionary Era Pinckney Statesmen, Phase 3	89.003	PE-100098-17	-	22,207
Papers of the Revolutionary Era Pinckney Statesmen, Phase 3	89.003	PE-100284-18	-	64,708
<b>Total National Archives &amp; Records Administration</b>			-	86,915
<b>US Department of Health &amp; Human Services</b>				
Mechanisms of the Effect of HIV Disclosure on Clinical Outcomes: A Longitudinal Study	93.855	1R21AI122919-01A1	-	60,064
A Chemopreventive Strategy Based on Edible MicroRNAs Produced in Plants	93.393	1R03CA181895-01A1	-	1,418
A Chemopreventive Strategy Based on Edible MicroRNAs Produced in Plants	93.393	1R21CA223353-01	-	171,483
A Genetic Model for Early-Onset Breast and Colon Cancer in African Americans	93.396	UCA158428C	-	482
A Novel Approach for Transforming Decellularized Vessel Grafts into Small-Diameter Arteries	93.286	1R21EB022131-01A1	-	84,731
A Nutrition-Based Approach to Reduce Heart Disease Risk Among Overweight African Americans: Use of Soul Food Plant-Based or Omnivorous Diets to Address Cardiovascular Disease	93.837	1R01HL135220-01A1	-	19,395
A Nutrition-Based Approach to Reduce Heart Disease Risk Among Overweight African Americans: Use of Soul Food Plant-Based or Omnivorous Diets to Address Cardiovascular Disease	93.837	5R01HL135220-02	-	607,011
A Nutrition-Based Approach to Reduce Heart Disease Risk Among Overweight African Americans: Use of Soul Food Plant-Based or Omnivorous Diets to Address Cardiovascular Disease	93.837	5R01HL135220-03	-	94,690
A Patient-Centered Asthma Management Communication Intervention for Rural Latino Children	93.838	1K23HL133596-01A1	-	133,331
A Screen for Epigenetic Regulators of Hematopoiesis Reveals a Requirement for the Hbo1 Complex during Hematopoietic Stem Cell Specification	93.847	7K01DK104974-03	-	14,028
A Solid-State Nanopore Biosensor for Rapid Detection of Mycobacterium tuberculosis Antigens in Pediatric Blood Samples	93.855	1K22AI136686-01A1	-	148,808
Addiction Treatment in Medicaid Health Homes	93.279	1K01DA041628-01	-	125,279
Addressing Acquiescence: Reducing Survey Error To Promote Latino Health	93.393	5R01CA172283-05	73,415	96,550
Aging Language Trajectories in Premutation Carrier Mothers	93.865	1R03HD098291-01	-	9,623
AhR Ligands in Epigenetic Dysregulation of T Cells	93.855	1R01AI123947-01A1	-	189,035
An In Vivo Voltammetric Serotonin Biomarker for Antidepressant Efficacy	93.242	1R01MH106563-01A1	68,741	348,449
Analysis of TGFβ Ligands Function in Heart Development and Disease	93.837	RHL126705B	-	164,333
Antagonistic Roles of HuD and KSRP for mRNA stability in Neuronal Growth	93.853	1R01NS089633-01A1	187,722	441,191
Behavioral Health Care in Army Warrior Transition Units	93.279	KDA037412A	1,362	102,852
Big Data Analytics of HIV Treatment Gaps in South Carolina: Identification and Prediction	93.855	1R01AI127203-01A1	-	559,436
Bioinspired Matrices to Enhance Cardiac Differentiation and Maturation of Embryoid Bodies	93.286	1R03EB026813-01	-	88,176
Biomedical-Behavioral Interface: Prevention and Developmental Sciences Training	93.859	2T32GM081740-11A1	-	336,431
Biomedical-Behavioral Interface: Prevention and Developmental Sciences Training	93.859	2T32GM081740-10	-	23,065
Biomedical-Behavioral Interface: Prevention and Developmental Sciences Training	93.859	TGM081740B	-	(2,542)
Biomedical-Behavioral Interface: Prevention and Developmental Sciences Training	93.859	TGM081740C	-	(2,648)
Brain Targeted Nanoparticle for Alzheimer's Disease Therapy	93.866	1R01AG054839-01A1	-	445,366
Building Evidence for Effective and Sustainable Cigarette Warning Label Policy	93.393	RCA167067B	-	16,292
Building Evidence for Effective and Sustainable Cigarette Warning Label Policy	93.393	RCA167067C	-	1,304
Cachexia in ApCMin/+ mice: The role of IL-6	93.396	2R01CA121249-05A1	-	34,096
CAM Center for Epigenetic Regulation of Inflammation (Admin. Core)	93.213	2P01AT003961-06A1	-	1,520,912
Cannabidiol and Immunosuppression: Mechanism of Induction and Role of MDSCs	93.279	KDA034892A	-	(2,662)
Carolina Center on Alzheimer's Disease and Minority Research (CCADMR) - Admin Core	93.866	1P30AG059294-01	8,834	281,250
Center For Colon Cancer Research - Administrative Core	93.389	5P30GM103336-02	-	1
Center For Colon Cancer Research - Administrative Core	93.389	5P30GM103336-05	-	193,602
Center For Colon Cancer Research - Administrative Core	93.389	PGM10336A	-	(7,503)
Center For Targeted Therapeutics - Admin Core (Year 2)	93.859	5P20GM109091-04	-	(2,602)
Center For Targeted Therapeutics - Admin Core (Year 2)	93.859	5P20GM109091-05	-	1,852,963
Center for the Study of Aphasia Recovery (C-STAR)	93.173	5P50DC014664-02	-	(25,420)
Center for the Study of Aphasia Recovery (C-STAR)	93.173	5P50DC014664-03	925,332	1,875,862
Center for the Study of Aphasia Recovery (C-STAR)	93.173	5P50DC014664-04	-	254,868
Central & Peripheral Body Temperature in VLBW Preterm Infants During the Neonatal Period: Relationship to Neonatal Infection and Necrotizing Enterocolitis	93.361	1R01NR017872-01A1	133,263	400,327
Characterization and Genetic Analysis of Aging in Daphnia	93.866	RAG037969B	-	(311)
Children's Dietary Recalls: Prompts, Retention Interval, and Accuracy	93.837	7R01HL103737-04	-	(13,862)
Chronic Moderate Sleep Restriction in Older Long and Older Average Sleepers - Year 2 progress report and Year 3 continuation	93.233	7R01HL095799-03	-	(62,812)
COBRE - Center for Dietary Supplements and Inflammation (Admin Core Year 4)	93.859	2P20GM103641-06A1	-	1,369,285
COBRE - Center for Dietary Supplements and Inflammation (Admin Core Year 4)	93.859	4P20GM103641-05	-	(6,678)
COBRE - Center for Dietary Supplements and Inflammation (Admin Core Year 4)	93.859	5P20GM103641-07	-	94,664
COBRE - Center for Dietary Supplements and Inflammation (Admin Core Year 4)	93.859	2P0GM103641	-	221,550
COBRE - Center for Dietary Supplements and Inflammation (Admin Core Year 4)	93.859	PGM103641B	-	134,427
COBRE - Center for Dietary Supplements and Inflammation (Admin Core Year 4)	93.859	PGM103641C	-	29,896

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<b>Research and Development Cluster, continued</b>				
<b>US Department of Health &amp; Human Services, continued</b>				
Colorectal Cancer Screening Program in South Carolina	93.800	15DP006137	-	(87)
Colorectal Cancer Screening Program in South Carolina	93.800	5NU58DP006137-03-00	85,054	126,540
Colorectal Cancer Screening Program in South Carolina	93.800	5NU58DP006137-04-00	205,133	610,075
Colorectal Cancer Screening Program in South Carolina	93.800	None	-	7,379
Community-Generated Palliative Care Telemedicine for Rural Black and White Elders	93.866	1R21AG046772-01A1	-	(2,066)
Compartmentalization of Cyclic Nucleotide Signaling in the Ventral Hippocampus	93.242	1R01MH101130-01A1	-	342,289
Concurrent Treatment of Substance Abuse and Child Maltreatment	93.279	Pending	-	38,214
Connect through P.L.A.Y.: A staff-based intervention targeting social mechanisms for promoting physical activity within after school programs for underserved middle school youth	93.361	1R01NR017619-01	-	470,760
Coordinating Center for Research to Promote the Health of Children with Birth Defects and People with Developmental and Other Disabilities	93.073	1U19DD001218-01	51,669	123,353
Coordinating Center for Research to Promote the Health of Children with Birth Defects and People with Developmental and Other Disabilities	93.073	5U19DD001218-02-00	609,332	943,737
Coordinating Center of Excellence in Social Promotion of Health Equity Research (Admin Core)	93.307	PMD001770C	-	1,043
Defining the Language Phenotype of the FMR1 Premutation	93.RD	1R21DC017804-01	-	13,172
Developing a Lifestyle Intervention to Reduce Body Weight for Obese African American Men Living in the Rural South	93.307	1K23MD013899-01	-	2,093
Developing a Trauma-Focused Intervention for Older Adults Living with HIV	93.242	7K01MH115794-02	-	53,939
Development of a High-Throughput Platform for Screening Ovotoxic Chemicals	93.113	1K01ES030014-01	-	65,017
Development of an Innovative Physical Activity Self-report Instrument for Youth	93.393	RCA158577B	-	(2)
DIDACTIC: Dissemination and Implementation of a Diet and Activity Community Trial In Churches	93.837	1R01HL122285-01	-	68,885
Does Preference-Based HIV Testing Increase Uptake in High Risk Populations?	93.242	RMH106388B	302,631	524,038
Dynamic Signaling of NRG3-ErbB4 in the Hippocampus Mediates Nicotine Withdrawal Phenotypes	93.279	RDA044311A	-	346,067
Early Indicators of Autism Risk in Down Syndrome	93.865	1F32HD097877-01	-	27,532
Early Language and Literacy Acquisition in Children with Hearing Loss	93.173	1R01DC017173-01	41,894	490,464
Early Language and Literacy Acquisition in Children with Hearing Loss	93.173	1R03DC014535-01	-	42,872
Effects of Sleep Deficiency During Postpartum on Body Weight and Body Fat Changes in African American and White Women	93.307	R21MD012740	-	168,176
Electronic cigarettes in Latin America: Evaluation of impacts and policy options	93.989	RTW010652A	156,209	275,329
Elucidating Roles for the Heparan Sulfate and Chondroitin Sulfate Glycosaminoglycan Chains on Betaglycan in Wnt Signaling	93.859	1F31GM122379-01	-	393
Emergence and Stability of Autism in Fragile X Syndrome	93.242	3R01MH090194-08S1	20,584	98,459
Emergence and Stability of Autism in Fragile X Syndrome	93.242	RMH090194B	-	549,394
Emergence, Stability and Predictors of Anxiety in Fragile X Syndrome	93.242	1R01MH107573-01A1	18,330	610,259
Emodin as a Chemopreventive Agent for Breast Cancer	93.393	1R01CA218578-01A1	-	309,801
Enhancing the Efficacy of 5 Fluorouracil using Emodin as a Complementary Therapeutic	93.213	1F31AT009820-01	-	22,147
Enhancing the Efficacy of 5 Fluorouracil using Emodin as a Complementary Therapeutic	93.213	5F31AT009820-02	-	19,498
Epigenetic Mechanisms of T Cell Dysregulation in PTSD	93.855	1R01AI129788-01	95,618	336,006
Estimating population level infertility and fertility treatment rates	93.865	1R03HD097287-01	-	3,231
Estrogen Mediated Mechanisms of Stress Susceptibility	93.242	None	-	515,409
Evaluating a Food Hub's Impact on Food Access, Diet and Weight in a Food Desert	93.393	RCA180336B	-	106,015
Evaluation of Cigarette Package Inserts for Enhanced Communication with Smokers	93.393	1R01CA215466-01A1	535	75,999
Examining mRNA Localization in Central Sensory Axons after Peripheral Nerve Injury	93.853	KNS105879A	-	79,905
Examining the Role of the Lissencephaly Protein, Lis1, in Dynein-based Transport	93.853	RNS056314C	-	(1)
Exploring and Synthesizing the Association of the HEI-2015 with Mortality Outcomes Across Cohorts - NCI Manuscript	93.RD	HHSN261201800769P	-	22,470
Exploring how B cell Maturation Pathways Influence Microbiota Composition and Host Health	93.855	KAI123481B	-	94,067
Exploring the Role of Ovary MicroRNAs in Mosquito Reproduction	93.855	1R21AI139603-01	18,693	198,889
Families Improving Together (FIT) for Weight Loss	93.865	Pending	15,016	50,328
Families Improving Together (FIT) for Weight Loss	93.865	RHD072153C	-	(1,060)
Flexible Biomarker Evaluation Through a Cost-Effective Data Collection Mechanism	93.855	1R03AI135614-01A1	-	30,256
Functional Identification of New Mechanisms of Neurotoxicity Induced by HIV and Drugs of Abuse	93.279	1R03DA043428-01A1	-	119,503
Functions of Heparan Sulfate Proteoglycans in Axon Guidance and Degeneration.	93.853	4R00NS083714-03	-	71,316
Functions of Heparan Sulfate Proteoglycans in Axon Guidance and Degeneration.	93.853	RNS083714B	-	42,498
Health Promotion and Disease Prevention Research Centers; Faith, Activity, and Nutrition: Dissemination in Underserved Communities(CENTER CORE)	93.135	5U48DP005000-03	-	(5)
Health Promotion and Disease Prevention Research Centers; Faith, Activity, and Nutrition: Dissemination in Underserved Communities(CENTER CORE)	93.135	5U48DP005000-03S7	-	(13,506)
Health Promotion and Disease Prevention Research Centers; Faith, Activity, and Nutrition: Dissemination in Underserved Communities(CENTER CORE)	93.135	5U48DP005000-04	10,471	523,271
Health Promotion and Disease Prevention Research Centers; Faith, Activity, and Nutrition: Dissemination in Underserved Communities(CENTER CORE)	93.135	5U48DP005000-05-00	4,099	651,827
Health Promotion and Disease Prevention Research Centers; Faith, Activity, and Nutrition: Dissemination in Underserved Communities(CENTER CORE)	93.135	U48DP005000-02	-	13,514
HER2 and the Link between Inflammation and Cancer Stem Cells	93.396	RCA178386A	-	(181)
HIV/Cocaine Neurotoxicity in Females	93.279	2R01DA013137-16	279,413	611,437
HIV-Related Stigma and HIV Clinical Outcomes	93.242	1R01MH112376-01	-	423,381
Hypocretin/orexin Modulation of Cognitive Correlates of Brain Aging	93.866	RAG050518A	94,305	339,733
Identifying Predictors of Racial Disparity in Treatment and Mortality among Patients Diagnosed with Breast Cancer in South Carolina and Geospatial Investigation of Breast Cancer Patient Navigation	93.398	1F99CA222722-01	-	48,311
Impact of Dead Box RNA Helicase 3 Signaling on HIV-1 Tat- and Cocaine-Induced Neurotoxicity	93.279	1R21DA047936-01	-	46,534
Impact of Disparities in Food Security on Glycemic Control and Health Care Utilization Among Youth and Young Adults with Diabetes	93.847	RDK117461A	274,684	576,033
Impact of HIV-1 Tat Protein on Cocaine-Dopamine Transporter Interaction	93.279	RDA035714A	-	(2,980)
Impact of HIV-1 Tat Protein on Cocaine-Dopamine Transporter Interaction	93.279	RDA035714B	-	(4,565)
Impact of HIV-1 Tat Protein on Cocaine-Dopamine Transporter Interaction	93.279	RDA035714C	88,573	421,855
Impact of Macrophage PCSK9 on Breast Cancer	93.396	1R21CA216230-01	-	94,730
Improving Adherence to Adjuvant Hormonal Therapy among Disadvantaged Breast Cancer Survivors	93.398	KCA193667A	-	113,746

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<b>Research and Development Cluster, continued</b>				
<b>US Department of Health &amp; Human Services, continued</b>				
Improving the HIV Care Continuum for Youth in the Deep South through Mobile Health Technology	93.242	1K01MH118073-01A1	-	1,831
Inhibin function in tumor angiogenesis	93.396	1R01CA219495-01A1	17,855	253,628
Inhibitors of B-Raf Through the Dimerization Interface	93.395	1R21CA191899-01A01	18,151	33,893
Interactions of Climate Change on Oceans and Human Health (CAPICCOHH): Assessment of Effects on Ocean Health Related Illness and Disease and Development of Prevention Strategies to Better Protect Public Health - ADMIN CORE	93.113	1P01ES028942-01	90,569	605,251
Intersecting Stigma Against MSM in Clinical Settings in Zambia	93.989	1R21TW011064-01A1	-	21,175
Interventions to Promote Healthy Lifestyle and Academic Performance in Children during the Summer Months	93.865	1R21HD090647-01A1	52,500	111,630
Interventions to Promote Healthy Lifestyle and Academic Performance in Children during the Summer Months	93.865	3R21HD090647-01A1S1	-	74,391
Intracellular Sorting of Connexin 43 by the Ubiquitin Ligase Wwp1	93.837	RHL104030B	-	7,686
Investigating the Role of Structured Days on Accelerated Weight Gain during Summer: A Natural Experiment	93.865	3R21HD095164-01S1 Revised	-	24,679
Investigating the Role of Structured Days on Accelerated Weight Gain during Summer: A Natural Experiment	93.865	RHD095164A	-	121,029
K99/RO0 Grant Transfer Application: Acceptability and Feasibility of Unsupervised HIV Self-Testing Among Networks of Men in Tanzania	93.242	4R00MH110343-03	-	209,925
K99/RO0 Grant Transfer Application: Acceptability and Feasibility of Unsupervised HIV Self-Testing Among Networks of Men in Tanzania	93.242	7K99MH110343-02	-	18,658
Knock-in Mouse Model of Dopamine Transporter-Tat Interaction Underlying NeuroAIDS	93.279	1R21DA041932-01	2,026	12,019
Kynurenic Acid, Sleep and Cognition	93.853	7R01NS102209-03	-	329,946
Linking Altered Cortical Sensorimotor Integration with Movement Impairments in Back Pain	93.865	1R01HD095959-01	-	206,396
Linking Altered Cortical Sensorimotor Integration with Movement Impairments in Back Pain	93.865	None	-	49,620
Linking Macrophages to Gut Microbiota in Obesity Enhanced Colon Cancer	93.393	1R21CA191966-01A1	38,909	65,441
Localized Targeting of Matrix Proteases Following Myocardial Infarction	93.837	RHL111090B	-	(79)
Macrophage-Microbiota Interactions in Colon Cancer	93.398	FCA225044A	-	7,293
Maternal HIV: Developmental Neurotoxicity	93.865	Pending	-	(7,705)
Maximizing Speech Recognition Under Adverse Listening Conditions	93.173	1R01DC015465-01	97,364	271,976
Mechanisms of Iron and Thiol Redox Regulation in Yeast	93.859	1R35GM118164-01	-	415,744
Mechanistic Studies of Iron Regulation in Yeast	93.859	RGM100069B	-	13,204
Metalloprotein and Antibiotic Bioconjugates against Multidrug Resistant Bacteria	93.855	1R01AI120987-01	-	243,644
Metalloprotein and Antibiotic Bioconjugates against Multidrug Resistant Bacteria	93.855	RAI120987A	-	64,531
MicroRNA Regulation of EAE by Resveratrol	93.213	5F32AT008539-02	-	(4,332)
MicroRNAs in Atopic Dermatitis Pathogenesis: A Role for Mast Cell and Sphingosine-1-Phosphate?	93.846	RAR067996A	-	725
Modeling and Estimation of Nonlinear Quantile Effects in Child Health Research	93.865	1R03HD084807-01A1	-	16,959
Modifying Intrinsic Growth Capacity through Axonal mRNA Translation	93.853	2R01NS041596-10A1	-	291,539
Modifying Intrinsic Growth Capacity through Axonal mRNA Translation	93.853	None	-	(49,387)
Modulation of Host Intrinsic Immunity to Reduce Prostate Cancer Disparity	93.396	1R01CA204786-01	-	(378)
Molecular Basis of Exercise-induced Changes in HDL Function	93.837	1R01HL146462-01	-	140,998
Molecular Origin and Evolution of HPV Inactive Head and Neck Cancers	93.393	RCA201853A	-	2,538
Muscarinic Modulation of the Basolateral Amygdala	93.242	1R01MH104638-01A1	-	496,271
Nano-cocktail Overcomes Multidrug-Resistance for Ovarian Cancer Therapy	93.395	RCA188847A	-	148,370
Neural Microcircuit Selection by Astrocyte Signaling Following Cocaine Exposure	93.279	1R01DA041513-01A1	-	256,157
Neurobiological Mechanisms of Apathy in HAND	93.853	1R01NS100624-01A1	-	554,786
Neurodevelopmental Outcomes Associated with Care Setting in Children Orphaned by AIDS	93.865	1R21HD087108-01A1	-	15,072
Novel Chemical Biology Probes based on Selective Inhibitors of the Polo-Box Domain of PLK1	93.395	1R03CA212889-01A1	-	79,209
Online vs Staff Delivery: Child & Family Outcomes, Cost Analysis and Satisfaction	93.242	Pending	177,739	321,099
Palmetto Poison Center and SCDHEC Surveillance Project	93.354	CY-9-548	-	15,812
ParkIndex: A tool for advancing parks and public health research and practice	93.394	1R21CA202693-01A1	54,835	98,546
Peers Promoting Exercise Adoption and Maintenance among Cancer Survivors	93.394	1R01CA183849-01A1	28,647	490,281
PeRiodontal treatment to Eliminate Minority Inequality and Rural disparities in Stroke (PREMIERS)	93.307	RMD009738A	319,688	427,451
Physical Activity and Nutrition Intervention in Afterschool Programs	93.837	RHL112787B	-	3,022
Physical Activity During the Transition from Elementary School to High School	93.837	RHL091002B	29,638	165,731
Physical Activity, Sedentary Behavior and Weight Status in Early Childhood	93.865	1R01HD091483-01A1	29,765	517,893
Policy to Practice: Statewide Rollout of YMCA Childhood Obesity Standards	93.865	1R01HD079422-01	3,743	316,996
Product Testing Movement Integration Products: Identifying What Works and What Doesn't	93.865	1R21HD091394-01A1	-	103,625
Progression of Attentional and Executive Function Deficits in HAND	93.242	1R01MH106392-01A1	-	62,777
Promoting Healthy Weight in Pregnancy and Postpartum among Overweight/Obese Women	93.865	1R01HD078407-01A1	-	367,726
Promoting Healthy Weight in Pregnancy and Postpartum among Overweight/Obese Women	93.865	3R01HD078407-03S1	-	30,882
Protein Succination as a Mediator of Neuropathology in Mitochondrial Disease	93.853	RNS092938A	-	240,047
Protein Succination: a Mechanistic Mediator of Adipocyte Dysfunction in Diabetes	93.847	RDK105087A	-	15,919
Quality, Economic Outcomes and Sustainability of Telesychiatry (QUEST) (Continuation Application RPPR attached)	93.242	RMH100002C	26,214	28,925
Racial/Ethnic Disparities in Care Practices, Outcomes, and Hospital Transfer Among Infants Born at 22-29 Weeks Gestation	93.865	1R03HD097305-01	-	15,353
RAD51-dependent homologous recombination and thiopurine treatments for cancer	93.395	1R15CA223956-01A1	-	118,955
Reducing Colorectal Cancer Disparities: Racial Differences in Colorectal Polyp Profile	93.393	RCA202477A	-	(600)
Role of Cyclic Nucleotide Signaling in Age-related Decline of Social Memories	93.866	1R01AG061200-01	-	61,230
Role of proteoglycan-mediated trans-axonal signaling in pre-target topographic sorting	93.853	1R01NS109197-01	-	147,100
Roles of the Mammalian CST Complex in DNA Replication and Chromosome Cohesion	93.859	4R00GM104409-02	-	29,026
Sensorimotor Processing of Auditory Feedback in Aphasia	93.173	1K01DC015831-01A1	-	140,249
Sensory-Motor Systems and Conceptual Processing in the Healthy and Impaired Brain	93.173	2R56DC010783-07A1	-	38,714
Sensory-Motor Systems and Conceptual Processing in the Healthy and Impaired Brain	93.173	RDC010783B	-	1,163
Socio-Ecological Coupling of Antibiotic Resistance and the Potential Risk of Human Exposure to AR Pathogens in Bioaerosols Generated During Wastewater Treatment	93.RD	75D30118C02903	22,730	167,100
South Carolina Cancer Disparities Community Network - II (Yr 5)Admin Core	93.397	UCA153461B	-	428
South Carolina iDeA Network of Biomedical Research Excellence (INBRE) Admin Core - Year One of Competing Renewal	93.389	SP20GM103499-17	47,498	158,051

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<b>Research and Development Cluster, continued</b>				
<b>US Department of Health &amp; Human Services, continued</b>				
South Carolina IDeA Network of Biomedical Research Excellence (INBRE) Admin Core - Year One of Competing Renewal	93.389	5P20GM103499-18	899,033	1,719,834
South Carolina IDeA Network of Biomedical Research Excellence (INBRE) Admin Core - Year One of Competing Renewal	93.389	P20GM103499	-	147,546
South Carolina IDeA Network of Biomedical Research Excellence (INBRE) Admin Core - Year One of Competing Renewal	93.389	PRR016461E	-	(7,315)
South Carolina Post-Baccalaureate Research Program	93.859	RGMO66526D	-	332,552
South Carolina-Advancing Diversity in Aging Research Undergraduate Program	93.866	RAGO50484A	-	276,632
Southern Oncology Network on Adverse Reactions (SONAR) - Focus on Tyrosine Kinase Inhibitors (TKIs).	93.393	RCA165609C	-	(13)
Sparstolonin B as an Anti-Atherogenic Agent	93.837	RHL116626A	-	8,115
Sparstolonin B as an Anti-Atherogenic Agent	93.837	RHL116626B	-	73,320
Strategies for Communicating the Environmental Risks of Cancer (SCERC)	93.113	R03E5027406-01	-	65,199
Strengthening the Quality of School Mental Health Services	93.242	RMH081941B	-	(21)
Stromal Modulation of Response to Thymidylate Synthase Inhibitors	93.395	RCA154731B	-	(79)
Targeted Engagement of the Premotor-Prefrontal Motor Circuit after Stroke	93.865	1R03HD087481-01	-	(69)
Targeting macrophages to reduce colorectal cancer: Impact of metabolic reprogramming	93.393	1F99CA234920-01	-	28,331
Targeting Protein Arginine Deiminases to Prevent Colitis and Colon Cancer	93.393	RCA151304B	-	(11,044)
Targeting the p62 Signalingosome in Leukemia.	93.RD	1R01CA218076-01	-	270,478
The Developing Real Incentives and Volition for Exercise (DRIVE) Project	93.837	1F32HL138928-01A1	-	59,893
The Development of Sustained Attention in Infants	93.865	2R01HD018942-31	-	637,237
The Effects of Ojeok-San on Neuro-Immune Interactions in Cancer-Induced Visceral Pain	93.213	1K99AT009206-01A1	-	109,019
The Neurodevelopmental MRI Database	93.865	1R03HD091464-01	-	60,504
Theory-based HIV Disclosure Intervention for Parents	93.865	RHD074221B	-	(33,856)
Therapeutic Targeting of Tissue Inhibitor-4 in Hypertrophy and Failure	93.837	1R01HL130972-01A1	117,086	450,108
Therapeutic Targeting of Tissue Inhibitor-4 in Hypertrophy and Failure	93.837	3R01HL130972-01A1S1	-	39,044
Trans-cranial Direct Current Stimulation to Treat Aphasia: Phase II Trial	93.173	UDCO11739B	-	(12,443)
Trans-cranial Direct Current Stimulation to Treat Aphasia: Phase II Trial	93.173	UDCO11739C	(5,716)	65,447
TRB3: A Novel Mediator for Denervation-induced Muscle Atrophy	93.846	1R03AR066825-01A1	-	36,550
Trials and ReseArch NetworkS FOR More (TRANSFORM)-South Carolina	93.865	8UG1OD024956-02	42,533	314,464
Turn Up the HEAT - Healthy Eating and Activity Time in Summer Day Camps	93.865	1R01HD079372	30,586	412,808
Ubiquitin-mediated Regulation of the RAD51D Homologous Recombination Protein	93.859	1R15GM110615-01	-	587
Validating Neuroelectric Biomarkers of Concussion Recovery	93.853	1R03NS106547-01	-	44,930
Validating Triage for Chemical Mass Casualty Incidents - A First Step	93.879	1R01LM011648-01A1	18,868	190,239
Vascular Pathogenesis of Port Wine Stain	93.846	7R01AR073172-02	-	250,971
Voltammetric Determination of Neuronal Serotonin and Histamine Co-Regulation	93.242	1R21MH109959-01A1	41,637	110,896
What's UP (Undermining Prevention) with Summer? Etiology of Accelerated Weight Gain during Summer vs. School Year	93.847	1R01DK116665-01A1	-	238,075
Word Learning in Reading and Language Impairment Subgroups	93.173	1R01DC017156-01	123,237	382,083
Word Learning in Reading and Language Impairment Subgroups	93.173	RDC013399A	-	(4,277)
<b>Passed through programs from:</b>				
<b>AcePre, LLC</b>				
Emodin as a complementary dietary therapy to reduce toxicity of 5 fluorouracil	93.RD	18060FB55	-	94,484
<b>Advanced Smart Systems &amp; Evaluation Tech</b>				
Mitigating Falls in Older Adults through Low-cost, Non-intrusive Activity and Gait Analysis from Floor Vibrations - STTR sub-contract with Advanced Smart Systems and Evaluation Technologies (ASSET)	93.866	1R41AG059475-01A1	-	40,642
<b>Association of Universities Centers on Disability</b>				
AUCD Technical Assistance on Medicaid Data	93.524	1U380T000140-02	-	2,868
<b>Beaufort Jasper Hampton Comp Health Services</b>				
Exploring Associations Between Body Mass Index, Race, Gender, Socioeconomic Status and Food Choice to Inform School Wellness Policy in South Carolina's Corridor of Shame	93.307	17220FA20	-	10,986
<b>Brandeis University</b>				
Longitudinal Study of Post-Deployment Pain Management Using DoD and VA Data	93.213	403621	-	15,632
Subcontract from Brandeis University - South Carolina Opioid Safety Initiative in the Military (SCOSI-M)	93.279	402269	-	3,068
<b>Brigham &amp; Women's Hospital</b>				
Partnership in Implementation Science for Geriatric Mental Health (PRISM) - Administrative Core	93.242	117722	-	20,140
Partnership in Implementation Science for Geriatric Mental Health (PRISM) - Prism Capacity Building Component	93.242	117729	-	19,380
Partnership in Implementation Science for Geriatric Mental Health (PRISM) - Prism Scale Up Study	93.242	117730	-	118,159
<b>Case Western Reserve University</b>				
Subaward: Hub Health Study: A research proposal in response to Time-Sensitive Obesity Policy and Program Evaluation	93.847	RESS10055	-	16,011
<b>Children's Hospital Medical Center</b>				
TCD with Transfusions Changing to Hydroxyurea-Subaward with Cincinnati Children's--Amendment	93.839	132981	-	(511)
<b>Children's Hospital PA</b>				
COG Cancer Trials Support Unit (CTSU)	93.RD	N02-CM-62212	-	3,000
COG Chair Grant: Per Case Reimbursement	93.701	U10CA098543	22,508	79,788
COG-Study Chair NIH Phase 1 Grant (UM1CA097452)	93.395	UM1CA097452	-	810
<b>Children's Trust Fund of South Carolina</b>				
Children's Trust MIECHV Workforce Evaluation	93.870	2016USC02	-	124,940
Understanding How State Level Leadership Influences Implementation of MIECHV: A Study of SC's State Lead Agency	93.870	X10MC32219	-	11,800
<b>Clemson University</b>				
Nanowired human cardiac spheroids for heart repair	93.837	1957-209-2012106	-	41,714
Targeted Therapy to Reverse Vascular Calcification	93.837	2095-209-2013055	-	64,630
Theranostic approach to treat abdominal aortic aneurysms	93.837	1935-209-2011885	-	107,116
<b>Connecting Health Innovations, LLC</b>				
Phase 2: Developing the Dietary Inflammatory Index for Clinical Application (subcontract)	93.RD	CONNECTING HEAL	-	230
<b>Davidson College</b>				
Precision Glycopolymers Bacteriochlorin Conjugates for Biomedical Applications	93.859	OGC 2015-16	-	35,123
<b>Drexel</b>				
Effects of the SCI Microenvironment on Intra-Axonal Signaling	93.853	800030-5826	-	168,089

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<b>Research and Development Cluster, continued</b>				
<b>US Department of Health &amp; Human Services, continued</b>				
<b>Passed through programs from:</b>				
<b>Duke University</b>				
Does Preference-Based HIV Testing Increase Uptake in High Risk Populations?	93.242	16-NIH-1035	-	(4,774)
MINT - mHealth-Assisted Conditional Cash Transfers to Improve Timeliness of Childhood Vaccinations	93.989	203-5317	-	1,604
POPS-Pharmacokinetics of Understudied Drugs Administered to Children per Standard of Care	93.RD	None	-	10,208
Reducing Disparities in Adolescent HPV Vaccination Coverage in the Carolinas	93.185	A030578	-	54,683
Subaward: Positive Outcomes for Orphans (POFO): HIV Risk as Young Adults	93.865	203-7798	-	55,858
<b>Emory University</b>				
Reducing Racial Disparities in Access to Kidney Transplantation: the RaDIANT Regional Study	93.307	A089741	-	4,353
Reducing Racial Disparities in Access to Kidney Transplantation: the RaDIANT Regional Study	93.307	T930613	-	10,644
<b>EnQ LLC</b>				
eCPAT: Advancing Public Park Information and Technology Resources to Diverse Audiences for Healthy Communities - *Subcontract from EnQ, LLC (SBC) as Part of a STTR Application	93.RD	11570FB44	47,153	75,818
<b>Environment and Health Group, Inc.</b>				
mHealth for ART adherence by HIV+ African Americans age 45 & older	93.RD	2R44MD007161-03	-	19,430
Usability of Self-Directed Online Training Intervention for Chinese Dementia Caregivers	93.RD	15590FB18	-	(14,632)
<b>EpiCypher, Inc</b>				
Subaward to Quantifying NETosis Via Automated High Content Imaging Assay And Neural Networks	93.RD	21400FA46	-	14,422
<b>Florida State University</b>				
Scale It Up: Effectiveness-Implementation Research to Enhance HIV-Related Self-Management among Adolescents and Young Adults - Analytic Core for U19 Application	93.865	R02024	-	22,092
<b>Furman University</b>				
Memory Consolidation During Waking Rest (revision)	93.242	13-0358	-	18,853
<b>Greenville Health System</b>				
GHS-REACH - A Caregiver coaching intervention for High Risk Patient/Caregivers to Extend Dementia Capable Services	93.763	7315-2	-	(9,454)
<b>Henry M. Jackson Foundation</b>				
Role of Ly6K in TGF and Immune Escape Pathways of Triple Negative Breast Cancer	93.396	1R01CA227694-01 / 4498	-	93,737
<b>Indoor Biotechnologies, Inc.</b>				
Antigenic Determinants of Asthma-Associated Allergens for Design of Immunotherapy	93.855	R01AI077653	-	100,731
<b>Johns Hopkins University</b>				
Evaluation of a New Policy Promoting Nutrition and Physical Activity in Family Child Care in South Carolina - Sub-contract with Johns Hopkins University	93.865	2003548903	-	360,865
<b>Mary Black Foundation</b>				
Evaluation Services for Mary Black Foundation's OAH1B Grant	93.297	TP1AH0001190100	-	18,372
Evaluation Services for Mary Black Foundation's OAH1B Grant	93.297	TP1AH000119-01-00	-	66,672
<b>McKing Consulting Corporation</b>				
Developing an Evaluation Model for Physical Activity Communities of Practice (CoP) - Sub-contract with McKing Consulting	93.RD	USC-05-4574	-	13,416
<b>Medical University of South Carolina</b>				
Biomarkers in Autism of Aripiprazole and Risperidone Treatment (BAART)	93.865	MUSC10-124	-	2
Brain Connectivity Supporting Language Recovery in Aphasia	93.173	MUSC14-031	-	210,517
Brief, Novel Smoking Cessation in Primary Care: A Comparative Effectiveness Trial	93.279	MUSC13-068	-	61,255
Collaborating with Community Agencies to Promote Youth Empowerment in Mental Health	93.350	UL1TR001450	-	2,092
Complement-factor H-based Therapeutics in an Age-related Macular Degeneration	93.867	MUSC14-084	-	(1,519)
Development Of Predictive Models For The Causes And Costs Of Re-hospitalization, Outpatient Surgery, And ED Visits In The First 10 Years After Traumatic SCI.	93.433	MUSC16-099-8C322	-	8,366
Enhanced Practice Transformation and Population Health Training for Interprofessional Trainees and Faculty	93.884	MUSC16-098-8C311	-	11,926
Evaluating How Tobacco Control Policies are Shaping the Nicotine Delivery Market	93.393	MUSC16-042-8B807	-	84,006
Evaluation of Harm Reduction Messages to Promote Vaping Among Adult Smokers (MUSC - Pilot Project)	93.RD	11540FB02	-	1,364
Genetic and Environmental Influences on SLE and Lupus-Related Autoimmunity.	93.846	MUSC12-085	-	(851)
South Carolina Cancer Health Equity Consortium (SC CHEC)	93.398	MUSC 15-076	-	23,959
South Carolina Clinical and Translational Research Institute - HSSC Subcontract	93.350	MUSC15-104	-	11,558
South Carolina Collaborative Alliance for Stroke Trials- (SC-CoAST)- USC Subaward	93.853	MUSC13-069	-	18,685
TRANScranial Direct Current Stimulation for Post-Stroke Motor Recovery - A Phase II Study (TRANSPORT 2) - Sub-Contract with MUSC	93.853	MUSC18-123-8D639	-	65,313
<b>MGH Institute of Health Professions</b>				
Orthography and Phonology in Word Learning as a Predictor of Dyslexia in Children with Language Impairment	93.173	300315	-	55,322
<b>Micro Vide, LLC</b>				
Reversal of Myocardial Infarction by Localized Stimulation	93.837	MICROVIDE/NIH	-	4,764
<b>National Jewish Health</b>				
Regulation of Gene Expression in the Anaphylactic Pathway	93.855	20116902	-	21,797
<b>NORC</b>				
NCS Vanguard Central ROC Task Order 3 NCS Health Measurement Data Collection - sub-contract with NORC	93.RD	None	-	4,924
<b>Oregon Health &amp; Science University</b>				
The Impact of Emergency Medicaid Policy on Reproductive Health Disparities Among New Immigrants	93.307	1013826_SC	-	7,695
<b>Palmetto Care Connections</b>				
Evaluation of the Network Development Grant, Palmetto Care Connections	93.RD	D06RH31:064	-	18,543
<b>Palmetto Health</b>				
DEFUSE3: Endovascular Therapy Following Imaging Evaluation for Ischemic Stroke 3	93.RD	18450FA11	-	8,002
Eliminating Disparities in Perinatal Health	93.RD	775 (Cost Center 51-8781)	-	32,015
<b>Partners Healthcare Research Management</b>				
Randomized Trial to Prevent Vascular Events in HIV ? REPRIEVE	93.837	225712	-	35,913

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<b>Research and Development Cluster, continued</b>				
<b>US Department of Health &amp; Human Services, continued</b>				
<b>Passed through programs from:</b>				
<b>PPI Pharmaceuticals, LLC</b>				
Non-ATP Competitive Inhibitors of Cyclin Dependent Kinases as Cancer Therapeutics	93.RD	PPI PHARMACEUTI	-	81
Polo-box PLK1 inhibitors target tumors resistant to ATP competitive compounds	93.RD	11110-FA87	-	(1,191)
<b>SC Campaign to Prevent Teen Pregnancy</b>				
Expanding the Reach of Effective Teen Pregnancy Prevention Programs in High Need South Carolina Communities (Tier 1B) (OAH1B)	93.297	1TP1AH000126-04-00	-	81,491
Expanding the Reach of Effective Teen Pregnancy Prevention Programs in High Need South Carolina Communities (Tier 1B) (OAH1B)	93.297	1TP1AH000133-01-00	-	3,835
Expanding the Reach of Effective Teen Pregnancy Prevention Programs in High Need South Carolina Communities (Tier 1B) (OAH1A)	93.297	OAH1A	-	5,635
Expanding the Reach of Effective Teen Pregnancy Prevention Programs in High Need South Carolina Communities (Tier 1B) (OAH1B)	93.297	OAH1B	-	26,441
Expanding the Reach of Effective Teen Pregnancy Prevention Programs in High Need South Carolina Communities (Tier 1B) (OAH1B)	93.297	PREV TEEN PREG	-	5,869
<b>SC Department of Health &amp; Environmental</b>				
DHEC Bureau of Community Health and Chronic Disease Prevention 1422	93.757	CY-15-017	-	127,837
Evaluation of WISEWOMAN (Well-Integrated Screening and Evaluation for Women Across the Nation)	93.094	CY-13-026	-	29,836
Healthy South Carolina Initiative: Community Transformation Plan	93.531	CY-4-509	-	219,006
South Carolina Muscular Dystrophy Surveillance System	93.315	MC-15-011	29,853	137,842
<b>SC Department of Health &amp; Human Services</b>				
SC Department of Health and Human Services Policy and Health Services Consultation Activities	93.RD	A202013005A	-	3,662,473
SF 2015 and 2016 QI/QA Contract	93.RD	A20151425A	-	7,899
SF 2015 and 2016 QI/QA Contract	93.RD	A20171425A	-	(1,291)
SF 2015 and 2016 QI/QA Contract	93.RD	A20191425A	-	945,976
<b>SC Department of Mental Health</b>				
Young Lives Matter	93.RD	4400011923	-	66,228
Young Lives Matter	93.RD	PO# 4600620147	-	6,764
<b>SC Department of Social Services</b>				
Child Welfare Quality Assurance	93.648	4400010906	-	889,421
Child Welfare Quality Assurance	93.648	PCA1AD1	-	2,470,025
Child Welfare Quality Assurance	93.648	PCA1AD2	-	284,043
Child Welfare Quality Assurance	93.648	PCA1AD3	-	203,015
USC-DSS: Purchase of Social Work Training for DSS Staff and Agents. Quality Assurance Review, Economic Services Quality Improvement and Training Evaluation, NYTD (2014-2015)	93.608	Task Order #2	-	(3,000)
USC-DSS: Purchase of Social Work Training for DSS Staff and Agents. Quality Assurance Review, Economic Services Quality Improvement and Training Evaluation, NYTD (2014-2015)	93.608	Task Order #3	-	55,698
<b>SC Research Foundation</b>				
Coordinating Center for Research and Training to Promote the Health of People with Developmental and Other Disabilities	93.283	001007DD14	50,726	111,077
Coordinating Center for Research and Training to Promote the Health of People with Developmental and Other Disabilities	93.283	5U01DD001007-05	-	7,104
Rural Health Research Center Cooperative Agreement 2014-2015	93.155	15U1CRH037111	-	305
Rural Health Research Center Cooperative Agreement 2014-2015	93.155	1UCRH305390102	-	(1,268)
Rural Health Research Center Cooperative Agreement 2014-2015	93.155	5U1CRH30539-02-00	-	120,427
Rural Health Research Center Cooperative Agreement 2014-2015	93.155	5U1CRH30539-03-00	20,782	402,510
Adoptive Transfer of Immunity Elicied by Attenuated HIV Vaccines	93.855	317K310	-	(5,399)
Effects of Criminal Justice System Exposure on Youth's Substance Use Trajectories	93.279	1R15DA032875	-	(671)
Exploring Current Smokers' Interest in Using Smokeless Tobacco Products	93.393	109-01	-	4
Pathways from Food Insecurity to Treatment and Health Outcomes in Women with HIV	93.242	7440sc	-	(298)
PCSK9, Lipoprotein Receptors, and Atherosclerosis	93.837	None	-	(728)
Platelet-Oriented Inhibition in New TIA	93.RD	1U01NS026835-01A1	-	682
Quit Advisor MD	93.RD	SILVERCHAIR	-	307
SEARCH for Diabetes in Youth, Phase 3, Year 5 - USC	93.RD	5-52855	-	(80)
Studying Community Programs to Reduce Childhood Obesity - sub-contract with Battelle Memorial Institute	93.865	236804	-	26,559
Studying Community Programs to Reduce Childhood Obesity - sub-contract with Battelle Memorial Institute	93.865	US00100000236804	-	54
Type 1 Diabetes TrialNet: Natural History of the Development of Type 1 Diabetes	93.998	0000137866/0000145802	-	8,203
<b>Senex Biotechnology, Inc.</b>				
CDK8/19 inhibitor for the treatment of HER2+ breast cancer	93.RD	11110FA95	-	26,515
Targeting CDK8 for the Treatment of Vein Graft Failure	93.RD	18020FB63	-	46,267
<b>Spartanburg School District 7</b>				
Mary Black Foundation Implementation of YRBS, School Health Profiles, and Sexual Health Curricula	93.RD	11580FA88	-	6,189
<b>The Miriam Hospital</b>				
Phone Coaching as a Rescue Strategy for Early Non-responders Enrolled in an Internet-delivered Weight Loss Program - Sub-contract with Brown University - Sub-contract with The Miriam Hospital	93.847	710-7147122	-	24,670
<b>The Ohio State University</b>				
Sub-award NIH-RO1: HIV Nucleocapsid Protein and Gag Polyprotein Nucleic Acid Chaperone Activity	93.859	60048848-PO RF01423832	-	(12,125)
<b>The Regents of the University of California</b>				
Integrative Functions of the Planum Temporale	93.173	2015-3293-	-	67,976
Multisectoral Agricultural Intervention to Improve Food Security, Prevent Treatment Failure, and Reduce Co-morbidities Among People Living with HIV in Kenya	93.242	9343sc	-	67,245
<b>The Truth Initiative</b>				
Predicting menthol cigarette and flavored cigar smokers responses to menthol or flavored tobacco restrictions: results from experimental auctions	93.393	USC-7020	-	9,708
<b>The University of Alabama</b>				
Conformational Dynamics and Allosteric Regulation During Stress-responsive Metallofactor Assembly	93.859	UA15-040	-	63,046

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Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
<b>Research and Development Cluster, continued</b>				
<b>US Department of Health &amp; Human Services, continued</b>				
<b>Passed through programs from:</b>				
<b>The University of Nebraska-Lincoln</b>				
Group Testing for Infectious Disease Detection: Multiplex Assays and Back-end Screening	93.855	24-0548-0008-004-	-	102,478
<b>Trustees of Boston University</b>				
Improving Accuracy and Reliability in Cancer Screening Tests	93.393	4500002637	-	8,986
<b>Trustees of Dartmouth College</b>				
Cinema Smoking and Youth Smoking in Latin America	93.989	RTW0092748-1066R113	-	705
Clozapine for Cannabis Use Disorder and Schizophrenia	93.279	1132	-	300
<b>Tufts University</b>				
Morphine-induced Changes in the Sperm Epigenome	93.279	102319-00001/NIH022	-	13,360
<b>University of Arkansas for Medical Sciences</b>				
Data Coordinating and Operations Center (DCOC) for the IDeA States Pediatric Clinical Trials Network - VDORA	93.865	8U24OD024957-02	-	27,316
ECHO - Salary Support for ISPTCN Leadership Committee	93.865	51460 - Leadership	-	18,072
Genetic Variability in DHFR and Folic Acid Supplementation as Novel Risk Factors for Aggressive Prostate Cancer Subcontract w/ University of Ark	93.393	52603-USC	-	36,177
TRANSFORM-SC Addendum ACT NOW	93.RD	G190121014	10,970	21,942
UAMS-VDORA Travel	93.865	51460 8U24OD024957	-	6,482
<b>University of Texas Health Sciences Center</b>				
Development and Validation of a Measure of Organizational Readiness (motivation x capacity) for Implementation	93.399	0014035A	-	38,499
<b>University of California, Davis</b>				
Adapting and Testing an Alzheimer's Family Caregiver Intervention in Vietnam	93.866	201602016-02	-	22,126
Language in Fragile X Syndrome	93.865	R01HD024356	-	98,232
<b>University of Central Florida</b>				
University of Central Florida Subaward: Project HARMONY	93.086	14276042-01	-	125,205
<b>University of Connecticut</b>				
Multi-Sectoral Agricultural Intervention to Improve Nutrition, Health, and Developmental Outcomes of HIV-infected and Affected Children in Western Kenya	93.242	136059	-	18,344
<b>University of Illinois</b>				
Improving Sickle cell care in Adolescents & Adults in Chicago (ISAAC) subcontract from U. of Illinois-Chicago	93.839	16045	-	43,139
<b>University of Iowa</b>				
Neural Mechanisms of Vocal Communication in the Human Brain	93.173	1001620374/W000828030	-	27,595
<b>University of Kansas Center for Research</b>				
Exposure and Emotion Regulation as Predictors of Adjustment to Trauma	93.242	FY2016-116	-	69,284
<b>University of Kentucky</b>				
GMAp - Exploring Sociocultural Influences on Cervical Cancer Prevention and Control Behaviors in Cusco, Peru	93.397	3210000374-18-271	-	274
GMAp - Exploring Sociocultural Influences on Cervical Cancer Prevention and Control Behaviors in Cusco, Peru	93.397	3P30CA177558-0652	-	3,845
GMAp Subcontract with University of Kentucky	93.397	321000037417060	-	(1)
GMAp Subcontract with University of Kentucky	93.397	3210000374-17-060	-	1,479
GMAp Subcontract with University of Kentucky	93.397	3210001063-19-074	-	49,751
GMAp Subcontract with University of Kentucky	93.397	321000037417060	-	2,013
<b>University of Massachusetts</b>				
Correlates of Physical Activity among Preschoolers with Developmental Delay and Autism	93.110	WA00583861/OSP2017204	-	2,241
National Implementation of FOYC+CImPACT in the Bahamas: implementation strategies and improved outcomes	93.865	OSP2018103	-	18,122
<b>University of Michigan</b>				
The Effect of Built and Social Environments on Childhood Obesity and Racial/Ethnic Disparities in the National Healthy Communities Study - Sub-contract with the University of Michigan	93.837	3004659122	-	29,690
The Impact of Tobacco Control Policies on Health Equity in the United States	93.393	3004806996	-	25,661
The Impact of Tobacco Control Policies on Health Equity in the United States - Diversity Supplement	93.393	SUBK00010253	-	65,749
University of Michigan Subaward: A Positive PATH (Promoting Activity and Trajectories of Health) for Children	93.837	3004173082	-	159,357
<b>University of North Carolina at Chapel Hill</b>				
Population-base Diabetes in Youth Registry	93.945	5102576	-	29,261
Population-base Diabetes in Youth Registry	93.945	5111789	-	54,367
Promoting Physical Activity in Young Adult Cancer Survivors using mHealth and Adaptive Tailored Feedback Strategies	93.395	5107125	-	12,086
SEARCH Nutrition Ancillary Study 2 (SNAS2)	93.847	5-34496	-	35,591
<b>University of Pennsylvania</b>				
Surgery to Prevent Postinfarction Ventricular Remodeling - Subcontract	93.837	2R01HL06395414A	-	(150)
<b>University of South Dakota</b>				
NRF2 Signaling in the Cross-Talk between Proteasomal and Lysosomal Degradation	93.837	A00-0282-S001 / UP1700008A	-	74,838
NRF2 Signaling in the Cross-Talk between Proteasomal and Lysosomal Degradation	93.837	UP1700008A	-	161,577
<b>University of South Florida</b>				
The Study of Epigenetics and Infections in the TEDDY Study	93.847	6163-1007-00-AV	-	20,595
The Study of Epigenetics and Infections in the TEDDY Study	93.847	6163-1017-00-AV	-	(369)
The TEDDY Study	93.847	6119-1276-00-AV	-	37
<b>University of Southern Mississippi</b>				
Subcontract: Determining the Mechanisms Governing Transmissibility among Amyloid-Beta Oligomers	93.113	USM-GR05433-01	-	10,380
<b>University of Tennessee</b>				
R01 Concurrent Care with University of Tennessee Knoxville	93.361	A9-0157-S003	-	48,802
<b>University of Vermont</b>				
Internet Assisted Obesity Treatment: Enhanced by Motivational Interviewing	93.847	29177SUB51777	3,638	310,295
Skeletal Muscle Atrophy and Dysfunction in Human Cancer - Sub-contract with University of Vermont School of Medicine	93.846	30704SUB52097	-	14,920
<b>University of Waterloo</b>				
Pilot Award: Cross-validation of auction modalities to assess demand for emerging nicotine products	93.RD	None	8,563	22,387

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<b>Research and Development Cluster, continued</b>				
<b>US Department of Health &amp; Human Services, continued</b>				
Passed through programs from:				
<b>Upper Midlands Rural Health Network</b>				
Catawba CMHC/Community Medicine Foundation Primary Care Initiative	93.RD	18130FA35	-	23,975
Evaluation of the Network Development Grant, Upper Midlands Rural Health Network	93.RD	18130FA33	-	(1)
Evaluation of the Network Development Grant, Upper Midlands Rural Health Network	93.RD	18130FA37	-	20,350
<b>Virginia Commonwealth University</b>				
RFID based Wireless System for Self-powered Implantable Pediatric Cardiac Sensors	93.837	FP00004110_SA001	-	60,786
<b>Yale University</b>				
Image Guided Delivery of Bioresponsive Hydrogels	93.837	GR102135(CON-80001159)	-	23,294
<b>Total US Department of Health &amp; Human Services</b>			<u>6,290,240</u>	<u>54,528,103</u>
<b>Executive Office of the President</b>				
Passed through programs from:				
<b>SC Research Foundation</b>				
Constructing a Drug Consequences Index	95.RD	G10USCAROLINA	-	(837)
<b>Total Executive Office of the President</b>			<u>-</u>	<u>(837)</u>
<b>US Department of Homeland Security</b>				
Passed through programs from:				
<b>SC Emergency Management Division</b>				
Emergency Warning System USC Beaufort Pre-application	97.RD	4166-DR-SC	-	37,913
Upstate Emergency Siren System	97.RD	FEMA-4286-DR-SC	-	91,912
USC Upstate Generators and Wiring Upgrades	97.039	4166-DR-SC	-	79,611
<b>SC Universities Research &amp; Education Foundation</b>				
Nuclear Forensics Minority Serving Institution Collaboration Award Program	97.004	NF13006	-	(1,778)
Nuclear Forensics Graduate Fellowship Program - Formerly MUSC	97.RD	2012-DN-130-NF0001	-	128,764
Nuclear Forensics Junior Faculty Award Program	97.130	NF13004	26,751	16,937
Nuclear Forensics Undergraduate Scholarship Program	97.130	NF13001	-	(431)
<b>SC Research Foundation</b>				
Tracking Airborne and Satellite Remote Sensing Collection Assets for Emergency Response Phase	97.RD	HSHQDC-11-C-00151	-	(259)
<b>University of North Carolina at Chapel Hill</b>				
E2E Project: Identifying and Analyzing the Driving Forces of Hurricane Recovery for Disaster Stricken Areas to Improve Long-term Planning	97.061	5-36314	-	11
<b>Total US Department of Homeland Security</b>			<u>26,751</u>	<u>352,680</u>
<b>US Agency for International Development</b>				
Passed through programs from:				
<b>Chemionics International, Inc.</b>				
Rule of Law Certificate Program	98.RD	SUBIQC-168	-	121,846
<b>IRG</b>				
Research and Implementation Related to Adaptation to Climate Change	98.RD	EPP-I-00-04-00024	-	(4,952)
<b>Total US Agency for International Development</b>			<u>-</u>	<u>116,894</u>
<b>Total Research and Development Cluster</b>			<u>\$ 13,048,442</u>	<u>\$ 102,572,073</u>
<b>Student Financial Aid Cluster</b>				
<b>US Department of Education</b>				
Federal Perkins Loan Program	84.038	None	\$ -	\$ 15,318,477
Financial Aid Direct Loans 17-18	84.268	None	-	126,290
Financial Aid Direct Loans 18-19	84.268	None	-	309,711,448
Financial Aid Federal Work Study 17-18	84.033	None	-	786,536
Financial Aid Federal Work Study 18-19	84.033	None	-	1,333,208
Financial Aid FWS Job Location 18-19	84.033	None	-	47,538
Financial Aid Iraq & Afghanistan 18-19	84.408	None	-	11,385
Financial Aid Pell 17-18	84.063	None	-	91,448
Financial Aid Pell 18-19	84.063	None	-	57,675,081
Financial Aid Pell Administration 17-18	84.063	None	-	885
Financial Aid Pell Administration 18-19	84.063	None	-	63,690
Financial Aid SEOG Grant 17-18	84.007	None	-	174,390
Financial Aid SEOG Grant 18-19	84.007	None	-	1,981,652
Financial Aid TEACH Grant 18-19	84.379	None	-	206,029
<b>Total US Department of Education</b>			<u>-</u>	<u>387,528,057</u>
<b>US Department of Health and Human Services</b>				
Four Year Nursing Program	93.364	None	-	805,958
Health Professions Student Loan - Pharmacy	93.342	None	-	716,280
Health Professions Student Loan - Medicine	93.342	None	-	3,050
Master Nursing Program	93.364	None	-	145,279
Nursing Faculty Loan Program	93.264	EP1HP28846-02-00	-	702,286
Two Year Nursing Program	93.364	None	-	12,421
<b>Total US Department of Health and Human Services</b>			<u>-</u>	<u>2,385,274</u>
<b>Total Student Financial Aid Cluster</b>			<u>\$ -</u>	<u>\$ 389,913,331</u>

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<b>Medicaid Cluster</b>				
<b>US Department of Health &amp; Human Services</b>				
Passed through programs from:				
<b>SC Department of Health &amp; Human Services</b>				
Connecting Data Analysis to Research and Practice for Child Serving Agencies	93.778	A201510241A	\$ -	\$ (9,860)
DHHS/SCCAMRS Administrative Contract 2014/15	93.778	A20151593A	-	(18,760)
Ongoing Consumer Satisfaction Survey	93.778	A20151722A	-	1,111
For the Purchase and Provision of Alzheimer's Disease Registry, Management and Training and Development Related to Dementia (Alzheimer's Program)	93.778	A20160088A	-	(5,487)
Technical Assistance Support for Coordination of Data Reporting and Data Analytics for the SC Medicaid Program	93.778	A201710237A	-	(425)
Data Translation and Interpretation, Evaluation, Research and Technical Assistance SC Medicaid Program	93.778	A201710239A	-	6,680
DHHS/SCCAMRS Administrative Contract 2014/15	93.778	A20181593A	-	(8,145)
University of South Carolina School of Medicine Access Improvement / Rural Outreach Initiatives In partnership with South Carolina Office of Rural Health (HHS 1599)	93.778	A20181599A	44,812	55,667
DHHS Contract for support of the work of the Office for the Study of Aging - Alzheimer's Registry (Registry)	93.778	A20190088A	-	340,857
DHHS/SCCAMRS Administrative Contract 2014/15	93.778	A20211593A	-	267,190
University of South Carolina School of Medicine Access Improvement / Rural Outreach Initiatives In partnership with South Carolina Office of Rural Health (HHS 1599)	93.778	A20211599A	272,422	1,080,131
Outpatient Pediatric AIDS Clinic Services FY18-19	93.778	C02746M	-	10,442
Outpatient Pediatric AIDS Clinic Services FY14-15	93.778	C62746M	-	(13,513)
University of South Carolina School of Medicine Access Improvement / Rural Outreach Initiatives In partnership with South Carolina Office of Rural Health (HHS 1599)	93.778	None	-	(1,117)
Outpatient Pediatric AIDS Clinic Services FY14-15	93.778	None	-	4,239
SC DHHS Palmetto Coordinated System of Care Evaluation	93.778	A201812156A	-	19,360
<b>Total US Department of Health &amp; Human Services</b>			<u>317,234</u>	<u>1,728,370</u>
<b>Total Medicaid Cluster</b>			<u>\$ 317,234</u>	<u>\$ 1,728,370</u>
<b>Highway Planning and Construction Cluster</b>				
<b>US Department of Transportation</b>				
Passed through programs from:				
<b>Clemson University</b>				
SCDOT Asset Collection	20.205	1796-223-2010467	\$ -	\$ 108
Cost Effective Strategies for Estimating Statewide AADT	20.205	1804-223-2010468	-	16,028
<b>SC Department of Archives &amp; History</b>				
ArchSite IIC: Maturation for Web-Based Archaeological & Historical Sites Geodata	20.205	13540FB36	-	375
<b>SC Department of Transportation</b>				
A GIS-based Mitigation Forecasting Tool and Study on Advanced Mitigation Processes used by DOTs	20.205	1633	-	(759)
Laurens and Spartanburg Counties Site File Digitization Project	20.205	1670	-	(471)
Feasibility Study for Rapid Condition Assessment of Bridge Decks	20.205	1762	-	22,911
Deep Soil Test Borings to Determine Shear Wave Velocities across South Carolina	20.205	1857	-	95,717
Calibration of the Aashto Pavement Design Guide to South Carolina Conditions - Phase II	20.205	1869	217,309	306,943
<b>Total US Department of Transportation</b>			<u>217,309</u>	<u>440,852</u>
<b>Total Highway Planning and Construction Cluster</b>			<u>\$ 217,309</u>	<u>\$ 440,852</u>
<b>Special Education Cluster (IDEA)</b>				
<b>US Department of Education</b>				
Passed through programs from:				
<b>SC Department of Education</b>				
Project CREATE	84.027	None	\$ -	\$ 397,076
<b>SC First Steps</b>				
Team for Early Childhood Solutions	84.027	SC FIRST STEPS	-	(103,311)
<b>Total US Department of Education</b>			<u>-</u>	<u>293,765</u>
<b>Total Special Education Cluster (IDEA)</b>			<u>\$ -</u>	<u>\$ 293,765</u>
<b>TRIO Cluster</b>				
<b>US Department of Education</b>				
Student Support Services 2010-15 Grant-in-Aid	84.042	P042A150625-18	\$ -	\$ 268,104
Talent Search Program	84.044	P044A160017	-	521,687
USC Lancaster Upward Bound	84.047	P047A120485	-	2,385
Upward Bound University of South Carolina Sumter Campus	84.047	P047A171401	-	310,694
USC Lancaster Upward Bound	84.047	P047A171434	-	326,495
2017 Ronald E. McNair Post-baccalaureate Achievement Program	84.217	P217A170015	-	255,315
Passed through programs from:				
<b>SC Research Foundation</b>				
Student Support Services (SSS)	84.042	P042A150221	-	379,588
Student Support Services	84.042	P042A150362	-	353,578
Student Support Services	84.042	P042A150610	-	249,326
Student Support Services 2010-15 Grant-in-Aid	84.042	P042A150625	-	26,628
Student Support Services 2010-2015	84.042	P042A151228	-	224,724
University of South Carolina Columbia Upward Bound Program	84.047	P047A121668	-	390
University of South Carolina Columbia Upward Bound Program	84.047	P047A170639	-	618,634
Student Support Services	84.042	None	-	19,000
<b>Total US Department of Education</b>			<u>-</u>	<u>3,556,548</u>
<b>Total TRIO Cluster</b>			<u>\$ -</u>	<u>\$ 3,556,548</u>
<b>WIOA Cluster</b>				
<b>US Department of Labor</b>				
Passed through programs from:				
<b>Spartanburg County</b>				
ACHIEVE 2015-16	17.259	14Y603C4-UWIB	\$ -	\$ (282)
<b>Upstate Workforce Investment Act</b>				
ACHIEVE 2018-19	17.259	15Y603C4-UWIB	-	(4,027)
ACHIEVE 2018-19	17.259	16Y603C4-UWIB	-	(947)
ACHIEVE 2018-19	17.259	17Y603C4-UWB	-	5,003
ACHIEVE 2018-19	17.259	None	-	315,525
<b>Total US Department of Labor</b>			<u>-</u>	<u>315,272</u>
<b>Total WIOA Cluster</b>			<u>\$ -</u>	<u>\$ 315,272</u>

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<b>Child Care and Development Block Cluster</b>				
<b>US Department of Health &amp; Human Services</b>				
Passed through programs from:				
<b>SC Department of Social Services</b>				
Statewide Child Care Market Rate Survey	93.575	4400010008	\$ -	\$ 795
<b>Total US Department of Health &amp; Human Services</b>			-	795
<b>Total Child Care and Development Block Cluster</b>			\$ -	\$ 795
<b>CDBG - Entitlement Grants Cluster</b>				
<b>US Department of Housing &amp; Urban Development</b>				
Passed through programs from:				
<b>City of Columbia</b>				
Empowering Families by Improving Fresh Food Access	14.218	None	\$ 25,000	\$ 25,000
<b>Total US Department of Housing &amp; Urban Development</b>			25,000	25,000
<b>Total CDBG - Entitlement Grants Cluster</b>			\$ 25,000	\$ 25,000
<b>Economic Development Cluster</b>				
<b>US Department of Commerce</b>				
Developing a Tourism & Hospitality Employment Plan for South Carolina	11.307	04-69-07351	\$ -	\$ 19,589
<b>Total US Department of Commerce</b>			-	19,589
<b>Total Economic Development Cluster</b>			\$ -	\$ 19,589
<b>Other Programs</b>				
<b>US Department of Agriculture</b>				
Five Acres in the Back 40 - Soil Health Technical Support and Education for Limited Resource and Minority SC Farmers	10.902	68-4639-17-155	\$ -	\$ 73,898
Merit or Myth Social Media Platform to Advance Soil Health in South Dakota	10.U02	68-6740-17-009	-	120,662
USC Palmetto College - RUS DLT Grant - 2018	10.855	SC0703-C16	-	272,938
Passed through programs from:				
<b>SC Department of Agriculture</b>				
Evaluation of Farm to Institution Programs (Specialty Crop Block Grant)	10.U01	11580FL23	-	(1,107)
Evaluation of Farm to Institution Programs (Specialty Crop Block Grant)	10.U01	11580FL25	-	(1,442)
Creating a bridge between specialty crop farms and e-commerce through increased branding strategies	10.170	AM180100XXXXG026	-	37,224
<b>SC Department of Health &amp; Environmental</b>				
PASOs and WIC Partnership Agreement	10.557	CH-8-781	40,298	198,557
<b>SC Research Foundation</b>				
Marlboro County FoodShare Expansion Project	10.769	46-040-570967350	-	3,193
<b>University of Tennessee</b>				
FRUVED Project	10.310	71000FL10	-	548
<b>Total US Department of Agriculture</b>			40,298	704,471
<b>US Department of Commerce</b>				
EDA Grant - University Innovation Center Clusters	11.303	ED17ATL3030040	-	92,630
USC Center for Applied Innovation and Advanced Analytics - i6	11.020	ED17HDQ0200091	-	145,149
Passed through programs from:				
<b>SC Sea Grant Consortium</b>				
Building Adaptive Capacity in the Southeast and Caribbean through a Climate Community of Practice: A Submission to the Conferences and Workshops Competition	11.417	NA140AR4170088	-	1,755
<b>Total US Department of Commerce</b>			-	239,534
<b>US Department of Defense</b>				
NROTC Educational Instruction Calculus and Physics	12.U04	N6331305RQ44A01	-	302
Procurement Technical Assistance Program for Business Firms	12.022	SP4800-17-2-1782	-	(9,971)
Procurement Technical Assistance Program for Business Firms	12.002	SP4800-18-2-1882	-	114,581
NROTC Educational Instruction Calculus and Physics	12.U04	US NAVV/DOD	-	1,083
National Register Evaluations for Six Late Discoveries, Fort Jackson, SC	12.300	W9126G-16-2-0019	-	18,160
Passed through programs from:				
<b>Academy of Applied Science</b>				
USC Junior Science and Humanities Symposium for South Carolina	12.630	None	-	4,099
<b>National Science Teachers Association</b>				
USC Junior Science and Humanities Symposium for South Carolina - 2019	12.630	19-871-029	-	5,672
<b>SC Office of the Adjutant General</b>				
On-Site Graduate Assistant for Cultural Resource Management at McCrady Training Facility, 2018	12.U02	4100074494	-	12,853
Standardizing Archaeological Data Collection using the DAACS System, 2018	12.U03	4100074496	-	24,081
Archaeological Surveys at Laurens, Hartsville, & Myrtle Beach Facilities, and the SCIF Site at McEntire Air National Guard Station	12.U01	4100075211	-	5,658
<b>Total US Department of Defense</b>			-	176,518
<b>US Department of Housing &amp; Urban Development</b>				
Passed through programs from:				
<b>City of Columbia</b>				
HOPWA Case Management, Mental Health and Substance Abuse Services in the Columbia EMSA	14.241	18190-FM48	91,720	334,384
<b>Total US Department of Housing &amp; Urban Development</b>			91,720	334,384
<b>US Department of Interior</b>				
Operation of the Mid-America Integrated Seismic Network 2015-2019 - USC	15.807	G15AC00022	-	105,267
Passed through programs from:				
<b>SC Department of Archives &amp; History</b>				
Administrative Services for ArchSite II	15.904	SCDAH/DOT	-	(1,224)
<b>Total US Department of Interior</b>			-	104,043
<b>US Department of Justice</b>				
SC Higher Education Partnership on Correctional Mental Health	16.751	2014-DP-BX-0001	-	36,272
Chief Research Advisor to examine and develop effective researcher/practitioner partnerships in law enforcement	16.U01	2016ADR8228	-	83,580
Passed through programs from:				
<b>SC Department of Public Safety</b>				
1J15007- Connection of Child Maltreatment and Juvenile Justice	16.540	1J13008	-	(17)
1J15007- Connection of Child Maltreatment and Juvenile Justice	16.540	1J15007	-	19,740
Identifying Juvenile Victims and High Risk Juveniles of Sex Trafficking in South Carolina	16.540	1J17003	-	23,813
1J15007- Connection of Child Maltreatment and Juvenile Justice	16.540	1J17004	-	78,731
Statewide Initiative to Reduce the Institutionalization of Status Offenders	16.523	1J511009	-	870
Statewide Initiative to Reduce the Institutionalization of Status Offenders	16.523	1J512004	-	(584)
Statewide Initiative to Reduce the Institutionalization of Status Offenders	16.523	1J512006	-	2,323

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<b>Other Programs, continued</b>				
<b>US Department of Justice, continued</b>				
<b>Passed through programs from:</b>				
<b>SC Office of the Attorney General</b>				
SC VOCA 2018 - Expanding Advocacy at USC	16.575	1V18087	-	2,814
<b>Total US Department of Justice</b>			-	<b>247,542</b>
<b>US Department of State</b>				
Justice Sector Training, Research, and Coordination Plus (JusTRAC+) Program Project 1	19.703	SINLEC18CA2068	-	35,917
Media Training - Russia	19.U03	S-R5500-13GR-182	-	500
<b>Passed through programs from:</b>				
<b>FHI 360</b>				
Study of U.S. Institutes for Student Leaders from Europe Institute in Civic Engagement	19.U01	102224	-	90,202
Study of U.S. Institutes for Student Leaders from Europe Institute in Civic Engagement	19.U01	PO 19002773	-	2,054
Study of U.S. Institutes for Student Leaders from Europe	19.U01	S-ECAGD-CA-1060	-	(6,600)
<b>Jesheim Videregaende Skole</b>				
U.S. - Norway Teacher Exchange: 2016 Southern Heritage Study Tour	19.U02	15250FL60	-	(1,415)
<b>Total US Department of State</b>			-	<b>120,658</b>
<b>US Department of Transportation</b>				
Dwight David Eisenhower Transportation Fellowship Program Graduate Fellowship - Hazel Bridges	20.215	693JJ31845066	-	(7)
<b>Passed through programs from:</b>				
<b>SC Department of Public Safety</b>				
Buckle Up, South Carolina Observational Survey 2019	20.U02	U00026486	-	24,621
<b>SC Department of Transportation</b>				
Administrative Services for Archsite II, FY2019-2020	20.U01	2119	-	10,416
<b>Total US Department of Transportation</b>			-	<b>35,030</b>
<b>Library of Congress</b>				
National Film Preservation Foundation Basic Preservation Grant: Gleason Collection	42.U01	FED14-028	-	88
Teaching with Primary Sources - University of South Carolina	42.U02	GA16C0090	-	117,466
<b>Total Library of Congress</b>			-	<b>117,554</b>
<b>National Aeronautics &amp; Space Administration</b>				
<b>Passed through programs from:</b>				
<b>College of Charleston</b>				
USC SC Space Grant Consortium Award	43.008	521179-CD-USC	-	2,173
Teaching Students How to Help Students Learn	43.008	521179-RP	-	7,970
<b>Total National Aeronautics &amp; Space Administration</b>			-	<b>10,143</b>
<b>National Endowment for the Humanities</b>				
Conversations in Clay: The Past, Present and Future of Ceramic Art in SC	45.024	1809179-55-18	-	15,316
America's Reconstruction: The Untold Story	45.163	ES-250824-16	-	(403)
America's Reconstruction: The Untold Story	45.163	ES-256830-17	-	70,514
America's Reconstruction: The Untold Story	45.163	ES-50571-14	-	2,815
Historic Southern Naturalists: Bringing Southern History and Natural History Together Online	45.301	MA-30-18-0048-18	5,725	42,710
FOLKfabulous at the South Carolina State Fair	45.130	ZR-256701-18	-	22,509
<b>Passed through programs from:</b>				
<b>SC Humanities Council</b>				
The Literature of Caregiving: Fostering a Humanities-based Culture of Care	45.129	17-1776-1	-	(76)
SC Humanities Grant Application for Swan Con: The Sumter Comic Arts Symposium	45.129	18-1861-1	-	5,783
Submerged: South Carolina Underwater Archaeology	45.129	18-1863-1	-	2,853
Reconstructing Freedom African American History Month at USC	45.U02	19-1890-2	-	2,000
Play on Words: An Aphasid Drama Group	45.129	19-1910-2	-	573
Mystical Sounds of Islam: Voices of Qawwal	45.U04	None	-	470
5th Annual Upcountry Literary Festival (USC Union Campus)	45.U01	None	-	11
Share a Little of that Human Touch: A Workshop to Design a Multi-Sensory Exhibit on SC Native American Prehistory	45.U03	None	-	715
South Carolina Prehistory Exhibit: Sharing a Little of that Human Touch	45.129	None	-	640
<b>South Carolina State Library</b>				
South Carolina Digital Library Ongoing Initiative 2014-15	45.310	IIF-13-01	-	(109)
South Carolina Encyclopedia and Digital Library Come Together Online	45.310	IIF-15-01	-	23
South Carolina Historical Newspapers, adding more	45.310	IIF-16-01	-	735
<b>Total National Endowment for the Humanities</b>			5,725	<b>167,079</b>
<b>Small Business Administration (SBA)</b>				
Office of Small Business Development Centers Program Announcement-2015 (USC)	59.037	SBAHQ-14-B-0027/0002	-	(34)
Office of Small Business Development Centers Program Announcement-2015 (USC)	59.037	SBAHQ-15-80042	-	(70,022)
Office of Small Business Development Centers Program Announcement-2015 (USC)	59.037	SBAHQ-16-B-0032	-	(13)
Office of Small Business Development Centers Program Announcement-2015 (USC)	59.037	SBAHQ-17-B-0042	-	(18,450)
Office of Small Business Development Centers Program Announcement-2015 (USC)	59.037	SBAHQ18B0039	-	392,895
Federal and State Technology (FAST) Partnership Program	59.058	SBAHQ18G0021	-	62,644
Office of Small Business Development Centers Program Announcement - 2019 (USC)	59.037	SBAHQ19B0036	-	757,951
<b>Total Small Business Administration (SBA)</b>			-	<b>1,124,971</b>
<b>US Department of Veterans Affairs</b>				
Contract for Animal Husbandry Services for Dorn VA Medical Center	64.U01	544-D70004	-	17,992
Contract for Attending Veterinarian Services for Dorn VA Medical Center	64.U02	544-D77101	-	11,497
Contract for Animal Husbandry Services for Dorn VA Medical Center	64.U01	544-D80010	-	29,404
VA Contract VA268-16-C-0004 Swine Housing	64.U06	544-D87004	-	7,210
IACUC Program Support - Administrative Services	64.U03	544D87012/VA-247-17-P-2248	-	18,220
Provision of VMO Services to the Dorn VA Medical Center (2019)	64.U05	544D97001/36C-247-19-P-0181	-	12,017
IPA Agreement: Production of online training recordings regarding staffing methodology for VA Office of Nursing Services	64.U04	PO# 544-8C0891	-	22,221
<b>Total US Department of Veterans Affairs</b>			-	<b>118,561</b>

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<b>Other Programs, continued</b>				
<b>US Department of Energy</b>				
<b>Passed through programs from:</b>				
<b>SC Energy Office</b>				
USC Beaufort Chiller Loan and Grant	81.041	DE-EE0006996	-	598,856
<b>SC Universities Research &amp; Education Foundation</b>				
Savannah River Environmental Sciences Field Station	81.U02	B139031	-	(2,639)
Earthquake Monitoring in South Carolina	81.U01	B139035	-	27,371
Savannah River Environmental Sciences Field Station 2019-2020	81.U02	B139038	-	79,221
<b>SC Universities Research &amp; Education Foundation</b>				
Savannah River Environmental Sciences Field Station	81.U02	B139036	163,157	376,147
<b>SC Research Foundation</b>				
Science and Technology Enrichment Program (STEP)	81.U03	0000360508	-	3,264
<b>SRS Community Reuse Organization</b>				
Development and Implementation of an Enhanced Biology Degree in Environmental Remediation and Restoration	81.104	DE-EM0001232	-	(1,071)
USC Aiken's Workforce Opportunities in Regional Careers (WORC)	81.104	DE-EM0004214	-	312,955
<b>Total US Department of Energy</b>			<u>163,157</u>	<u>1,394,104</u>
<b>US Department of Education</b>				
Rehabilitation Long-Term Training: Expanding the Next Generation of Psychiatric Rehabilitation Professionals	84.129	H129H140008	-	146,065
Vocational Rehabilitation Workforce Development: Increasing the Number of Qualified Vocational Rehabilitation Counselors in SC	84.129	H129W150004	-	224,217
Project FOCUS: Preparing Special Education Administrators with a Focus on Research to Practice in Transition	84.325	H325D150006	-	200,802
Project FUSION: Preparing Special Education Leaders with a Focus on Research to Practice in Transition	84.325	H325D180021	-	21,320
Project Promote: Promoting Policy, Advocacy and Legal Literacy Skills in Special Education Leaders to Serve in Schools and Communities	84.325	H325D180083	-	40,989
Project IMPACT: Impacting Adult Life Outcomes for Individuals with Severe Disabilities	84.325	H325K160020	-	294,387
Strengthening USC Upstate By Investing in Student Engagement and Advising Success	84.031	P031A140156	-	479,052
Carolina Family Engagement Center (CFEC)	84.U01	U310A180058	93,750	238,349
<b>Passed through programs from:</b>				
<b>National Writing Project</b>				
2017 NWP Advanced Institute to Scale-Up CRWP Grant	84.367	92-SC06-SEED2017-CRWP/PAI	-	4,671
<b>Richland County School District</b>				
Evaluation of the Med Pro 21 Magnet Program for Richland School District Two	84.165	15270FL03	-	229,670
<b>SC Commission on Higher Education</b>				
Nature-Based Inquiry Utilizing a STEAM Approach (NBI)	84.367	13090FJ13	-	1
Enhancing Middle Grades Science Teachers' Knowledge of Plant Processes, Structures, and Functions Through Engagement in Plant Sciences Research.	84.367	15250FJ56	-	37,856
Life Science Connections	84.367	15250FL56	-	(3,422)
Forward Thinking, Teaching and Learning (FTTL): Mathematics and Science Concepts in a Digital-based Society	84.367	None	-	54,974
<b>SC Department of Education</b>				
South Carolina School Behavioral Health Alliance	84.U05	13580FL26	-	400,602
SC CREATE 2017-2018	84.U02	17110FX00	-	6,771
STEP: Science Teaching Enhancement Project 2014-15	84.366	H63010008214	-	(56)
STEP: Science Teaching Enhancement Project 2014-15	84.366	H63010008215	-	(2,200)
SC Gateways: Preschool Initiative	84.323	H63010013314	-	(878)
SC CREATE 2017-2018	84.U02	None	-	32,489
Transition Alliance of South Carolina	84.U06	TransitionAlliance	-	(30,259)
<b>SC Research Foundation</b>				
Graduate Assistance in Areas of National Need Program (GAANN)	84.200	P200A120090	-	(10,100)
Aiken Writing Project SEED Teacher Development	84.367	07-SC12-SEED2012	-	(735)
National Writing Project 2017-2018 SEED Invitational Leadership Institute Grant	84.367	07-SC12-SEED2017-ILI	-	1,234
2014-15 SEED Professional Development in a High-Need School	84.367	92-SC06-SEED2012	-	129
<b>SC Vocational Rehabilitation Department</b>				
South Carolina Academy for Students with Disabilities Curriculum	84.U04	SCVRD 11537	-	974
<b>The Carolina Consortium for Enterprise</b>				
School Climate Profile Development for the Carolina Consortium for Enterprise Learning	84.U03	CAROLINA CONSOR	-	954
<b>The University of Nebraska-Lincoln</b>				
School Psychology Specialization in Toddlers with Autism Spectrum Disorders	84.325	24-1714-0097-004	-	22,650
<b>University of Oregon</b>				
Advancing School Mental Health and PBIS Together (Subcontract)	84.326	224440L	-	12,635
Advancing School Mental Health and PBIS Together	84.326	282070H	-	29,603
<b>Total US Department of Education</b>			<u>93,750</u>	<u>2,432,744</u>
<b>National Archives &amp; Records Administration</b>				
Accessing the New South: A Project to Enhance Access to Manuscript Collections in the South Caroliniana Library	89.003	NAR13-RH-50054-13	-	1,368
Reprocessing and Digitizing the William D. Workman, Jr. Papers Photographs	89.003	RH-100123-17	-	4,706
<b>Passed through programs from:</b>				
<b>National Historical Publications and Records Commission</b>				
Partnering to Create Document Based Questions with Digital Collections	89.003	DH-50028-16	-	45,453
<b>Total National Archives &amp; Records Administration</b>			<u>-</u>	<u>51,527</u>
<b>US Department of Health &amp; Human Services</b>				
South Carolina University Center for Excellence in Developmental Disabilities	93.632	00DDUC0003-01-00	-	6,554
Nigeria subcontract	93.U10	11540FL11	-	11,671
South Carolina Assistive Technology Program	93.464	1701SCSGAT	-	100,838
South Carolina Assistive Technology Program	93.464	1801SCSGAT	-	412,395
Garrett Lee Smith Campus Suicide Prevention	93.243	1H79SM080473-01	-	23,367
Rural Interprofessional Behavioral Health Scholars (RIBHS) Program.	93.732	1M01HP31378-01-00	-	30,434
Advanced Nursing Education Work Force (ANEW) HRSA-17-067	93.247	1T9HP30919-01-00	-	549,069
Traineeships for Nurse Anesthesia 2015	93.124	2A22HP30940-02-00	-	101,085
Preventive Medicine and Public Health Training Program	93.117	5D33HP26995-04-00	61,367	125,505
The Health Occupations Providing Excellence in SBIRT (HOPEs)	93.243	5H79TI026428-03	6,543	173,106
The Health Occupations Providing Excellence in SBIRT (HOPEs)	93.243	5H79TI026428-02	8,009	86,445
Rural Interprofessional Behavioral Health Scholars (RIBHS) Program.	93.732	5M01HP31378-02-00	8,000	389,760
Improving the Health of People with Mobility Limitations and Intellectual Disabilities Through State-Based Public Health Programs	93.184	5NU27DD000011-02-00	25,870	90,103
Improving the Health of People with Mobility Limitations and Intellectual Disabilities Through State-Based Public Health Programs	93.184	5NU27DD000011-03-00	46,728	331,404
South Carolina University Center for Excellence in Developmental Disabilities	93.632	90DDUC0003-02-00	-	522,118

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<b>Other Programs, continued</b>				
<b>US Department of Health &amp; Human Services, continued</b>				
<b>Passed through programs from:</b>				
<b>CDC Foundation</b>				
CDC Foundation Medicaid Analysis 2019	93.421	4001.01.01.04	-	10,815
<b>Children's Trust Fund of South Carolina</b>				
Community Support for Young Parents (CYP-II) Evaluation	93.U02	11500FL60	-	91,595
Community Support for Young Parents (CYP) Evaluation	93.U02	11550FL43	-	6,445
Children's Trust Maternal, Infant, and Early Childhood Home Visiting Program	93.615	CHILDREN S TRUST	-	175
MIECHV - Competitive Grant	93.505	CHILDREN'S TRUST	-	555
MIECHV Contract - Expansion Funding 2015-2016	93.505	C-MIEC-F-2016-PASOS	-	77,658
MIECHV Contract - Formula Funding 2015-2016	93.505	C-MIEC-F-2018-SCRHC	-	263,384
Children's Trust MIECHV Expanded Workforce Evaluation Part I	93.870	C-MIEC-F-2018-SCRHC	-	76,943
MIECHV Contract - Formula Funding 2015-2016	93.505	X02MC28246	-	(4,066)
Children's Trust MIECHV Expanded Workforce Evaluation Part I	93.870	None	-	70,357
2018-2019 PASOs MIECHV Contract	93.505	None	-	68,764
<b>Christopher &amp; Dana Reeve Foundation</b>				
High Impact Innovative Assistive Technology Grant	93.325	18140FQ00	-	54
<b>Clemson University</b>				
Project EMPOWER - Engaging Medicine Providers On Ways to Enhance Recovery	93.243	2063-209-2012877	-	19,569
<b>East Carolina University</b>				
Home C2OOKING: Creative Culinary Opportunities Offering Kids Inquiry-Based Nutritional Genius	93.859	A18-0008-S002	-	6,418
<b>Emory University</b>				
South Carolina HIV/AIDS Clinical Training Center	93.145	T236438	-	572
<b>Family Connection of SC</b>				
Program Evaluation for Family Connection of South Carolina	93.504	15900FL54	-	7,841
Program Evaluation for Family Connection of South Carolina	93.504	15900FL56	-	10,212
<b>Francis Marion University</b>				
Department of Health and Human Services Grant for a Branch Medical Campus of the SOM in Florence, SC	93.U04	FRANCIS MARION	-	1,287,694
<b>Low Country HealthCare System, Inc</b>				
Savannah River Rural Health Network for the Planning Grant Evaluation	93.U21	18130FL25	-	611
<b>LRADAC</b>				
Proposal to Serve as Outside Evaluator on Transitional Youth Services	93.U11	15900FL57	-	22,771
<b>McKing Consulting Corporation</b>				
Development of Communication Strategy for Surgeon General's Call to Action on Walking - Year 2	93.U18	USC-02-4568	-	8,848
Developing a 2016 U.S. Report Card on Walking and Walkable Communities	93.U05	USC-03-4568	-	5,899
<b>Medical University of South Carolina</b>				
Leadership Education in Neurodevelopmental and Related Disorders (LEND)Subcontract	93.110	MUSC16-094-88921	-	122,256
South Carolina Clinical & Translational Research Institute (SCTR)	93.350	MUSC18-039-8B122	-	29,061
Model State-Supported AHEC Program - USC Subaward	93.107	MUSC18-067-81358	-	40,888
<b>Mental Illness Recovery Center, Inc.</b>				
Youth Homelessness Evaluation - MIRCI, Inc.	93.243	1H79SM06330-01	-	24,555
<b>National Network of Public Health Institute</b>				
Feasibility of Creating Small Area Estimates Using Weighted, Multilevel Prediction Models: an Application for the National Survey of Children's Health	93.421	U00026531	-	24,191
<b>Palmetto GBA</b>				
Research Agreement between BCBS and USC	93.U12	11520FP00	-	7,029
<b>Palmetto Health</b>				
DISPLACE--PH Subaward 8.15.18	93.U06	18140FM72	-	6,413
<b>Palmetto Project</b>				
Partnerships to Increase Coverage in Communities (PICCI): ACA Navigators	93.332	1 NAVCA140191-01-00	-	2,708
Palmetto Project ACA Navigators 2015-2016	93.332	11500FL43	-	(153)
<b>SC Court Administration</b>				
Court Administration Basic Grant	93.586	2014G996437	-	(725)
Court Administration Training Grant	93.586	2015G991513	-	1,351
Court Administration Basic Grant	93.586	2015G996437	-	24,494
Court Administration Training Grant	93.U03	2017G991513	-	25,125
Court Administration Basic Grant	93.U03	2017G996437/2017G996471	-	59,863
Court Administration Training Grant	93.586	2018G991513	-	103,901
Court Improvement Basic Grant	93.586	2018G996437/2018G996471	-	127,538
Court Administration Training Grant	93.586	SC COURT ADM	-	4,175
<b>SC Department of Health &amp; Environmental</b>				
Pregnancy Risk Assessment Monitoring Systems	93.946	4100031742	-	(1,142)
ECCS-PASOs Partnership	93.110	CH-5-473	-	1
Evaluation and Training Services for SC DHEC's WISEWOMAN Program	93.094	CY-6-309	-	882
Scale Down Initiative	93.758	CY-7-728	-	96,093
SC DHEC Bioterrorism Project	93.003	DC-13-011	-	(14,281)
South Carolina Antimicrobial Stewardship & Resistance Prevention Network (SCARPS)	93.521	DC-7-710	-	144,256
Ryan White HIV/AIDS Treatment Extension Act - Ryan White Part B (Emerging Communities)	93.917	HV-2-572	-	162,920
Perinatal HIV Prevention: Comprehensive Risk Counseling and Services	93.940	HV-2-728	-	(14,690)
Ryan White HIV/AIDS Treatment Extension Act - Ryan White Part B (Emerging Communities)	93.917	HV-4-791	1,000	1,618
Ryan White Part D Coordinated HIV Services and Access to Research for Women, Infants, Children, Youth and Their Families (CSWICY) - Women's Clinic (Scope of Work Items #1-14)	93.153	HV-5-277	-	1,539
Ryan White HIV/AIDS Treatment Extension Act - Ryan White Part B (Emerging Communities)	93.917	HV-5-572	-	(40)
Perinatal HIV Prevention: Comprehensive Risk Counseling and Services	93.940	HV-7-558	1,000	190,277
Ryan White HIV/AIDS Treatment Extension Act - Ryan White Part B (Emerging Communities)	93.917	HV-7-778	3,223,666	3,229,987
Ryan White HIV/AIDS Treatment Extension Act - Part B Supplemental Funds	93.917	HV-9-601	-	849,032
SC DHEC Maternal and Child Health Title V Needs Assessment	93.994	MC-15-009	-	11,473
Strategic Planning Services for SCDHEC Health Services (SCDHEC HS) - Health Priorities Plan (HPP)	93.991	MC-16-008	-	1,260
Abstinence Education Grant Program Evaluation 2017-18	93.235	MC-17-001	-	21,471
Provision of Case Management Training	93.994	MC-17-008	-	34,889
PASOs Oral Health Initiative - DHEC Contract	93.283	MC-5-634	-	246
Addressing the Zika virus in Latino communities of SC	93.073	MC-7-383	-	444
Evaluation and Training Services for SC DHEC's WISEWOMAN Program	93.094	WW-8-882	-	2,933
Behavioral Risk Factor Surveillance Survey	93.283	None	-	48,750
<b>SC Department of Health &amp; Human Services</b>				
DHHS Statewide Business Process Redesign Implementation	93.U20	A201511635A	-	517
Innovative Service Design in Behavioral Health Organizations Training	93.U08	A201812804A	-	77,636
SC Department of Health and Human Services and the Center for Child and Family Studies Medicaid Training for HHS Staff	93.U13	A201812936A	-	643,331
Team for Early Childhood Solutions Data Systems Management and Compliance Indicator Analysis	93.U16	A201812946A	-	4,243
Team for Early Childhood Solutions Data Systems Management and Compliance Indicator Analysis	93.U16	A201912946A	-	227,738
Training and Certification for Attendant Care Services	93.U17	A202210675A	-	716,707
Developmental Evaluation Center Services 2015	93.U19	C55755M	-	(578)

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<b>Other Programs, continued</b>				
<b>US Department of Health &amp; Human Services, continued</b>				
Passed through programs from:				
<b>SC Department of Health &amp; Human Services</b>				
Developmental Evaluation Center Services 2015	93.U19	C85755M	-	63,571
Developmental Evaluation Center Services 2015	93.U19	C95755M	-	909,039
SCDHHS Environmental Scan of SC Healthcare Providers' Adoption and Use of Certified EHR Technology	93.U22	None	-	(1)
<b>SC Department of Social Services</b>				
Children's Justice Act: Support of Task Force	93.648	4400010905	-	(19,409)
Children's Justice Act: Operation of the Children's Law Center	93.648	4400010918	-	152,582
Children's Law Center: Child Welfare Training	93.648	4400010919	-	1,150,535
Children's Law Center: Investigations and External Legal Training	93.669	4400010977	-	178,448
Children's Law Center: Projects	93.667	4400010978	-	1,588,790
Improve the Quality of Child Care for South Carolina Families 2019-20	93.U07	4400021510	-	8,368
South Carolina Preschool Development Grant Birth through Five	93.U15	4400021672	-	21,543
Children's Justice Act: Support of Task Force	93.648	44000010905	-	82,836
Training and Certification for Attendant Care Services	93.U17	A20170675A	-	12,089
Court Liaison Program (1/1/15-12/31/15)	93.643	CLC#8	-	2,606
DSS Task Order #3: Training for External Community, Law School Courses, Consultation, and Special Projects (2014-2015)	93.658	CLC3	-	4,320
Court Liaison Program (1/1/15-12/31/15)	93.643	CLC5	-	8,259
Court Liaison Program (1/1/15-12/31/15)	93.643	CLC7	-	11,747
Court Liaison Program (1/1/15-12/31/15)	93.643	CLC1	-	29,260
Court Liaison Program (1/1/15-12/31/15)	93.643	DSS/HHS	-	4,422
Child Welfare Instructional Services	93.648	PCA1AD4	-	1,660,574
Child Welfare Instructional Services	93.648	PCA1AD8	-	910,761
Child Welfare Instructional Services	93.648	PCA1AD9	-	627,352
<b>SC Department of Disabilities &amp; Special Needs</b>				
Provision and Training and Certification for Self-Directed Attendant Care for ID/DD and HASCI Waiver Participants	93.378	20153043	-	11,364
Provision and Training and Certification for Self-Directed Attendant Care for ID/DD and HASCI Waiver Participants	93.378	20183043	-	3,651
Provision and Training and Certification for Self-Directed Attendant Care for ID/DD and HASCI Waiver Participants	93.378	20193043	-	132,748
Provision and Training and Certification for Self-Directed Attendant Care for ID/DD and HASCI Waiver Participants	93.378	None	-	(4,524)
<b>SC Developmental Disabilities Council</b>				
South Carolina Secondary Transition and Employment Advancement Model (SC-TEAM)	93.630	04-21-0001	-	(534)
IMPACT SC Self-Advocacy Initiatives	93.630	05-21-0055	-	(2,025)
Project Connect: Connecting PSE Programs and Adult Agencies	93.630	07-21-0003	-	5,102
IMPACT SC Self-Advocacy Initiatives	93.630	07-21-0055	-	881
Project Connect: Connecting PSE Programs and Adult Agencies	93.630	08-21-0003	-	25,848
IMPACT SC Self-Advocacy Initiatives	93.630	08-21-0055	-	39,324
<b>SC First Steps</b>				
SC First Steps - Preschool Development Grant PASOs Contract	93.U14	U00026517	-	22,504
<b>SC Lieutenant Governor's Office on Aging</b>				
Tomando Control de su Salud (Taking Care of Your Health) Program	93.734	90CS0030/01	-	400
<b>SC Research Foundation</b>				
South Carolina University Center for Excellence in Developmental Disabilities	93.632	90DD0673-05-00	-	(1,339)
South Carolina Poison Center Support and Enhancement Project	93.253	H4BHS15545	-	48,569
South Carolina Poison Center Support and Enhancement Project	93.253	H4BHS15545-10-00	-	225,566
CBCAP-Parenting Program 2016	93.590	S-CBCAP-2018-3	-	(670)
<b>SC Tobacco Collaborative</b>				
Promotores (Community Health Workers) Curriculum & Cultural Competency Training for Providers	93.311	SC TOBACCO COLL	-	8
<b>University of Alabama-Birmingham</b>				
An Innovative Approach to Inclusive Health	93.184	000512145-007	3,265	39,257
<b>University of North Carolina at Chapel Hill</b>				
Subaward: Nursing Workforce Diversity - University of North Carolina at Chapel Hill	93.178	5112598	-	23,211
<b>Upper Midlands Rural Health Network</b>				
Upper Midlands Regional Health Network 2014-2017	93.U23	UMRHN/HRSA ORHP	-	1,079
<b>Vanderbilt University</b>				
South Carolina HIV/AIDS Clinical Training Center/Vanderbilt - Inter-Professional Education (IPE)	93.145	VUMC56743	-	(2,533)
South Carolina HIV/AIDS Clinical Training Center/Vanderbilt - Inter-Professional Education (IPE)	93.145	VUMC56743/U10HA30535	-	259,062
AETC National Coordinating Resource Center- Hepatitis C	93.145	VUMC64412	-	53
<b>Total US Department of Health &amp; Human Services</b>			<u>3,385,448</u>	<u>20,261,844</u>
<b>Corporation of National and Community Services</b>				
Passed through programs from:				
<b>SC Commission on National &amp; Community Services</b>				
USCAiken AmeriCorps Saturday Academy - SC Commission Grant	94.006	14AC156643	-	3,681
USCAiken AmeriCorps Saturday Academy - SC Commission Grant	94.006	14ACH50010001	-	(537)
USCAiken AmeriCorps Saturday Academy - SC Commission Grant	94.006	None	-	409
<b>Total Corporation of National and Community Services</b>			<u>-</u>	<u>3,553</u>
<b>US Department of Homeland Security</b>				
Passed through programs from:				
<b>SC Emergency Management Division</b>				
USC Disaster Resistant University Plan Update	97.017	PDMC-PL-04-SC-2015-005	-	68,981
<b>Total US Department of Homeland Security</b>			<u>-</u>	<u>68,981</u>
<b>Total Other Programs</b>			<u>\$ 3,780,098</u>	<u>\$ 27,713,241</u>
<b>Total Federal Expenditures</b>			<u>\$ 17,388,083</u>	<u>\$ 526,578,836</u>

# University of South Carolina

## Notes to Schedule of Expenditures of Federal Awards For the year ended June 30, 2019

### Note 1. Basis of Presentation

The accompanying Schedule of Expenditures of Federal Awards (the Schedule), includes the federal award activity of the University of South Carolina (the University) under programs of the federal government for the year ended June 30, 2019. The information in the Schedule is presented on the accrual basis of accounting in accordance with the 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). Because the Schedule presents only a selected portion of the operations of the University, it is not intended to and does not present the financial position, changes in net position, or cash flows of the University.

### Note 2. Summary of Significant Accounting Policies For Federal Award Expenditures

Expenditures for student financial aid programs include the federal share of students' Federal Supplemental Educational Opportunity Grant (FSEOG) program grants and Federal Work Study (FWS) program earnings, certain other federal financial aid for students and administrative cost allowances, where applicable.

Expenditures for federal research and development programs are determined using the cost accounting principles and procedures set forth in OMB Circular A-21, *Cost Principles for Educational Institutions* or in *Uniform Guidance*, as applicable, wherein, certain expenditures are not allowable or are limited as to reimbursement.

Negative amounts shown on the Schedule represent adjustments or credits made in the normal course of business to amounts reported as expenditures in prior years.

Expenditures for nonfinancial aid awards include indirect costs, related primarily to facilities operation and maintenance and general, divisional and departmental administrative services, which are allocated to direct cost objectives (including federal awards) based on negotiated formulas commonly referred to as facilities and administrative cost rates. Facilities and administrative costs allocated to such awards for the year ended June 30, 2019 were based on predetermined fixed rates negotiated with the University's cognizant federal agency. The University has elected not to use the 10-percent de minimis indirect cost rate as allowed under the Uniform Guidance.

### Note 3. Federal Student Loan Programs

The federal student loan programs listed subsequently are administered directly by the University and the balances and transactions relating to the programs are included in the University's financial statements. Federal expenditures reported on the face of the Schedule include loans outstanding at the beginning of the year, loans made during the year, loan cancellations, interest subsidies and administrative expenses. The balance of loans outstanding at June 30, 2019 consists of:

<u>Number</u>	<u>Program Name</u>	<u>Outstanding Balance at June 30, 2019</u>
84.038	Federal Perkins Loan	\$ 12,115,396
93.364	Nursing Student Loans	777,869
93.342	Health Professions Student Loans	603,942
93.264	Nurse Faculty Loan Program	565,363

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**University of South Carolina*****Notes to Schedule of Expenditures of Federal Awards******For the year ended June 30, 2019***

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**Note 4. Contingencies**

The University receives funds under various federal grant programs, and such awards are to be expended in accordance with the provisions of the various grants. Compliance with the grants is subject to audit by various government agencies which may impose sanctions in the event of non-compliance. Management believes that they have complied with all aspects of the various grant provisions, and the results of adjustments, if any, relating to such audits would not have any material financial impact.

**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***

The Board of Trustees  
University of South Carolina  
Columbia, South Carolina

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the business-type activities and the aggregate discretely presented component units of the University of South Carolina (the University), as of and for the year ended June 30, 2019, and the related notes to the financial statements, which collectively comprise the University's basic financial statements, and have issued our report thereon dated October 1, 2019. Our report includes a reference to other auditors who audited the financial statements of the South Carolina Research Foundation; University of South Carolina School of Medicine Educational Trust (the Trust); the University of South Carolina Educational Foundation; the University of South Carolina Business Partnership Foundation; the Greater University of South Carolina Alumni Association; the USC Upstate Foundation; the USC Upstate Capital Development Foundation; and the Educational Foundation of the University of South Carolina-Lancaster, (collectively referred to as the Trust and the Foundations), as described in our report on the University's financial statements. This report does not include the results of the other auditors' testing of internal control over financial reporting or compliance and other matters that are reported on separately by those auditors. The financial statements of the Trust, the Beaufort-Jasper Higher Education Commission, the University of South Carolina Development Foundation, the Gamecock Club of the University of South Carolina, and the Foundations, excluding the South Carolina Research Foundation, were not audited in accordance with *Government Auditing Standards*.

### **Internal Control Over Financial Reporting**

In planning and performing our audit of the financial statements, we considered the University's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the University's internal control. Accordingly, we do not express an opinion on the effectiveness of the University's internal control.

A *deficiency in internal control* exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. We did identify a certain deficiency in internal control, described in the accompanying Schedule of Findings and Questioned Costs as item 2019-001 that we consider to be a significant deficiency.

### **Compliance and Other Matters**

As part of obtaining reasonable assurance about whether the University's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

### **University's Response to Findings**

The University's response to the findings identified in our audit is described in the accompanying Schedule of Findings and Questioned Costs. The University's response was not subjected to the auditing procedures applied in the audit of the financial statements and, accordingly, we express no opinion on it.

### **Purpose of this Report**

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.



Columbia, South Carolina  
October 1, 2019

**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 Board of Trustees  
University of South Carolina  
Columbia, South Carolina

### **Report on Compliance for Each Major Federal Program**

We have audited the University of South Carolina's (the University) compliance with the types of compliance requirements described in *the U.S. Office of Management and Budget (OMB) Compliance Supplement* that could have a direct and material effect on each of the University's major federal programs for the year ended June 30, 2019. The University's major federal programs are identified in the summary of auditor's results section of the accompanying Schedule of Findings and Questioned Costs.

The University's basic financial statements include the operations of the South Carolina Research Foundation (the Foundation), which received approximately \$2.3 million in federal awards which is not included in the Schedule of Expenditures of Federal Awards during the year ended June 30, 2019. Our audit, described below, did not include the operations of the Foundation because the component unit engaged other auditors to perform an audit in accordance with the Uniform Guidance.

### **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 University's major federal programs based on our audit of the types of compliance requirements referred to above. 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 University'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 opinion on compliance for each major federal program. However, our audit does not provide a legal determination of the University's compliance.

## Opinion on Each Major Federal Program

In our opinion, the University 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 major federal programs for the year ended June 30, 2019.

## 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 as items 2019-002, 2019-003, 2019-004, 2019-005, 2019-006, 2019-007, 2019-008, and 2019-009. Our opinion on each major federal program is not modified with respect to these matters.

The University's response to the noncompliance findings identified in our audit is described in the accompanying Schedule of Findings and Questioned Costs. The University's response was not subjected to the auditing procedures applied in the audit of compliance and, accordingly, we express no opinion on the response.

## Report on Internal Control Over Compliance

Management of the University 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 University'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 University'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 were not identified. However, as discussed below, we identified 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 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 as items 2019-002 and 2019-003 to be a material weakness.

*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 as items 2019-004, 2019-005, 2019-006, 2019-007, 2019-008, and 2019-009.

The University's response to the internal control over compliance findings identified in our audit are described in the accompanying Schedule of Findings and Questioned Costs. The University's response was not subjected to the auditing procedures applied in the audit of compliance and, accordingly, we express no opinion on the response.

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 business-type activities and the aggregate discretely presented component units of the University, a component unit of the State of South Carolina, as of and for the year ended June 30, 2019, and have issued our report thereon dated October 1, 2019, which contained unmodified opinions on those financial statements. We did not audit the financial statements of the University of South Carolina School of Medicine Educational Trust; the South Carolina Research Foundation; the University of South Carolina Development Foundation; the University of South Carolina Educational Foundation; the University of South Carolina Business Partnership Foundation; the Greater University of South Carolina Alumni Association; the USC Upstate Foundation; the USC Upstate Capital Development Foundation; and the Educational Foundation of the University of South Carolina-Lancaster, which are discretely presented component units of the University. Those statements were audited by other auditors whose reports have been furnished to us, and our opinions, insofar as they relate to the amounts included for these discretely presented component units, are based solely on the reports of the other auditors. Our audit was conducted for the purpose of forming opinions on the financial statements as a whole. 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 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 financial statements. The information has been subjected to the auditing procedures applied in the audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the Schedule of Expenditure of Federal Awards is fairly stated in all material respects in relation to the financial statements as a whole.



Columbia, South Carolina  
November 13, 2019

**University of South Carolina**  
*Schedule of Findings and Questioned Costs*  
*For the year ended June 30, 2019*

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**I. Summary of Auditor's Results**

**Financial Statements**

- (a.) Type of auditor's report: Unmodified
- (b.) Internal control over financial reporting:
  - 1) Material weaknesses identified? No
  - 2) Significant deficiencies identified? Yes
- (c.) Noncompliance material to financial statements noted? No

**Federal Awards**

- (a.) Internal control over major federal programs:
  - 1) Material weaknesses identified? Yes
  - 2) Significant deficiencies identified? Yes
- (b.) Type of auditor's report issued on compliance for major federal programs: Unmodified
- (c.) Audit findings that are required to be reported in accordance with 2 CFR 200.516 (a)? Yes
- (d.) Identification of major federal programs:

<u>CFDA Numbers</u>	<u>Name of federal program or cluster</u>
10.RD; 11.RD; 12.RD; 15.RD; 16.RD; 17.RD; 19.RD; 20.RD; 42.RD; 43.RD; 45.RD; 47.RD; 58.RD; 64.RD; 66.RD; 77.RD; 81.RD; 84.RD; 89.RD; 93.RD; 95.RD; 97.RD; 98.RD	Research and Development Cluster
84.007; 84.033; 84.038; 84.063; 84.268; 84.379; 84.408; 93.264; 93.342; 93.364	Student Financial Assistance Cluster
93.648	Child Welfare Research Training or Demonstration
93.917	HIV Care Formula Grants

- (e.) Dollar threshold used to distinguish between type A and type B programs: \$3,000,000
- (f.) Auditee qualified as low risk auditee? No

**University of South Carolina**  
*Schedule of Findings and Questioned Costs*  
*For the year ended June 30, 2019*

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**II. Financial Statement Findings:**

**Finding 2019-001      Capital Assets**

Criteria or Specific Requirement:      Generally accepted accounting principles (GAAP) requires that capital asset activity be accurately recorded in the financial statements.

Condition:      Capital assets per the University's capital asset module within PeopleSoft did not reconcile to the general ledger, resulting in an approximate \$2.1 million addition of capital assets to the University's general ledger.

Cause:      Upon implementation of the University's capital asset module, management did not reconcile the capital asset module to the general ledger.

Effect:      Capital assets were understated on the University's general ledger by approximately \$2.1 million. This resulted in an adjustment to true-up capital assets on the University's general ledger to reflect what was recorded in the capital asset module.

Context:      The condition was identified by management during current year reconciliation procedures.

Recommendation:      We recommend that the University implement procedures to reconcile, at least semi-annually, capital assets per the capital asset module to the general ledger.

Management Response and Corrective Action Plan:      Management agrees with the finding and recommendation. While our reconciliation did identify these errors that were corrected prior to year-end close, the reconciliation had not been completed in previous fiscal years. The current policy of monthly reconciliation and review is designed to promptly identify and correct any discrepancies prior to the close of the fiscal year.

**University of South Carolina**  
**Schedule of Findings and Questioned Costs**  
**For the year ended June 30, 2019**

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**III. Federal Award Findings and Questioned Costs:**

**Finding 2019-002            Schedule of Expenditures of Federal Awards**

Federal Agency:            Various

Program:                    Various

Criteria or Specific Requirement:            Generally accepted accounting principles (GAAP) and the Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (the Uniform Guidance) requires that grants are recognized in the proper period, reconciled in a timely manner, and federal grants are properly reported on the Schedule of Expenditures of Federal Awards (SEFA).

Condition:                    The following grant conditions were identified during the current year:

- A. During fiscal year 2019, the University made an improper reversing entry of the fiscal year 2018 federal to state revenues and expenses reclassifying entry.
- B. The University improperly recorded federal funds received from the American Recovery and Reinvestment Act Revolving Loan/Grant Program.
- C. We noted 13 projects that had the incorrect CFDA number. After correcting the CFDA numbers, we noted that 1 of these projects was included in the Medicaid Cluster and should not have been clustered, and 2 of these projects were included in the Medicaid Cluster and should have been included in the Research and Development Cluster.
- D. We noted 28 projects that were not clustered, of which 23 should have been included in the Research and Development Cluster, 4 should have been included in the Medicaid Cluster, and 1 should have been included in the CDBG – Entitlement Grants Cluster.

Cause:                        The year-end procedures performed by the Controller’s Office were not adequate enough to ensure all federal grant revenue was properly recognized or that the SEFA was accurately prepared in accordance with the Uniform Guidance.

For Condition B, although these are federally funded expenses, they are accounted for as USCCP (capital projects) rather than as USCSP (sponsored projects) because the project expenses cannot show up as both and the expenses have to remain in USCCP for various state approval and reporting requirements. As expenses were not recorded in USCSP, they were not captured as federal expenses to be reported on the SEFA.

Effect:                        For condition A, expenditures for 43 federal projects on the Schedule of Expenditures of Federal Awards were overstated, totaling approximately \$6.3 million. Additionally, federal grant revenue/expense was overstated and state grant revenue/expense was understated by approximately \$8.9M.

**III. Federal Award Findings and Questioned Costs, Continued**

**Finding 2019-002      Schedule of Expenditures of Federal Awards, Continued**

For condition B, the SEFA was understated by \$598,856, notes payable was understated by \$443,734, state grant revenue was overstated by \$598,856 and federal grant revenue was understated by \$155,122.

For conditions C and D, as the SEFA is the primary view of federal awards for federal agencies and pass-through entities, errors in CFDA numbers and cluster identifications could effect funding decisions of federal agencies. Additionally, inaccurate information can effect the major program determination which drives the scope of the audit.

Questioned Costs:      \$0

Context:      We noted the above conditions A, C, and D while testing the SEFA for accuracy and reconciling it to the general ledger. Condition B was identified during testing of state grant revenue as a part of the financial statement audit.

Repeat Finding:      Although some circumstances may differ, this finding is substantially the same as condition b of finding 2018-003 that was reported the prior year.

Recommendation:      While progress has been made since the prior year finding, we recommend that the Controller’s Office continue to establish review procedures and enhance controls to ensure federal grants are properly recognized in the financial statements and reported accurately on the SEFA.

Management  
Response and  
Corrective  
Action Plan:

Management agrees with the finding and recommendation. While substantial progress has been made to improve the SEFA and ensure that grants are properly classed and recorded correctly, management acknowledges that additional procedures, processes and controls need to be enhanced further to strengthen the SEFA. Management has developed a reconciliation process with the SEFA and the general ledger that will ensure proper classification. In addition, management is working to add functionality to the financial system to track proper CFDA classifications and clusters by each grant.

**III. Federal Award Findings and Questioned Costs, Continued**

**Finding 2019-003      Subrecipient Monitoring**

Federal Agency:      Various

Program:      Research and Development Cluster and HIV Formula Care Grants

Criteria or Specific Requirement:      Per 2 CFR 200.331(b), all pass-through entities must 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.

Per 2 CFR 200.331(d), all pass-through entities must 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 entity monitoring of the subrecipient must include: (1) Reviewing financial and performance reports required by the pass-through entity. (2) Following-up 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 pass-through entity as required by § 200.521 Management decision.

Additionally, per 2 CFR 200.331(f), the pass-through entity must verify that every subrecipient is audited as required by 2 CFR Subpart F-Audit Requirements, if applicable.

Condition/Context:      For all subrecipient contracts selected for testwork subject to Uniform Guidance, the University did not complete the required risk assessment or perform any monitoring procedures for the subrecipient, as required by the Federal regulations. The number of contracts selected for testwork for each major program was as follows:

- A. Out of 2 subrecipients under the HIV Formula Care Grants, we selected both contracts for testing. Total funds passed through to these 2 subrecipients during fiscal year 2019 were \$3,224,666.
- B. Out of a total of 131 subrecipients under the Research and Development Cluster, we selected 14 contracts for testing. Total funds passed through to these 14 subrecipients during fiscal year 2019 were \$4,610,436.

Cause:      The University lacks appropriate subrecipient monitoring controls.

**III. Federal Award Findings and Questioned Costs, Continued**

**Finding 2019-003      Subrecipient Monitoring, Continued**

Effect:                      Lack of timely subrecipient monitoring procedures could result in undetected unallowable activities or costs by a subrecipient. Due to the lack of risk assessments, the University was unable to evaluate the subrecipient’s risk of noncompliance for purposes of determining the appropriate subrecipient monitoring procedures for the subaward.

Questioned Costs:      \$0

Recommendation:      We recommend that the University implement appropriate policies and procedures to ensure that it is meeting all aspects of the subrecipient monitoring compliance requirement. The University should utilize a standard risk assessment template to determine the monitoring procedures to be used for each subrecipient. This risk assessment should be completed prior to any expenditures being processed or payments made to the subrecipient. Additionally, the University should document the results of its monitoring procedures over subrecipients.

Management  
Response and  
Corrective

Action Plan:              Management agrees with this finding and is working to ensure a full subrecipient monitoring program is put into place by hiring a position that will oversee the subrecipient program for the University. The University will develop a full subrecipient monitoring program and will ensure compliance with auditing standards for compliance under Uniform Guidance. The program will be fully documented and monitoring procedures, along with standard risk assessments, will be in place for each subrecipient.

**Finding 2019-004      Procurement, Suspension and Debarment**

Federal Agency:      Various

Program:                  Research and Development Cluster

Criteria or Specific  
Requirement:              Non-Federal entities are prohibited from contracting with or making subawards under covered transactions to parties that are suspended or debarred. “Covered transactions” include contracts for goods and services awarded under a non-procurement transaction (e.g., grant or cooperative agreement) that are expected to equal or exceed \$25,000 or meet certain other criteria as specified in 2 CFR section 180.220. All non-procurement transactions entered into by a pass-through entity (i.e., subawards to subrecipients), irrespective of award amount, are considered covered transactions, unless they are exempt as provided in 2 CFR section 180.215.

**III. Federal Award Findings and Questioned Costs, Continued**

**Finding 2019-004 Procurement, Suspension and Debarment, Continued**

When a non-Federal entity enters into a covered transaction with an entity at a lower tier, the non-Federal entity must verify that the entity, as defined in 2 CFR section 180.995 and agency adopting regulations, is not suspended or debarred or otherwise excluded from participating in the transaction. This verification may be accomplished by (1) checking the *Excluded Parties List System (EPLS)* maintained by the General Services Administration and available at <https://governmentcontractregistration.com/sam-registration-and-renewal/>, (2) collecting a certification from the entity, or (3) adding a clause or condition to the covered transaction with that entity (2 CFR section 180.300).

**Condition/Context:** During our testing of this program for the fiscal year ended June 30, 2019, we selected 4 vendors out of a population of 40 and found no evidence the University had complied with Uniform Guidance requirements regarding suspension and debarment verification for any of the vendors in our sample. The sample was not statistically valid. No vendors selected in our test work were listed as suspended or debarred.

**Cause:** The University's policies regarding procurement, suspension, and debarment were not compared to Uniform Guidance to ensure all elements were incorporated and therefore, the University did not have sufficient controls in place during the year to meet the Uniform Guidance requirements discussed above. While the University did have controls covering the applicable suspension and debarment provisions for subrecipient transactions, there were no such controls in place over other covered transactions. There was no control in place to verify whether all vendors contracted for covered transactions were suspended or debarred, nor was there a certification, clause or condition meeting the requirements of 2 CFR section 180.300 included in the University's standard contracts executed under covered transactions.

**Effect:** The University is at risk of entering into a covered transaction with an entity that is debarred, suspended, or otherwise excluded.

**Questioned Costs:** None; no vendors in our samples were listed as suspended or debarred.

**Recommendation:** Control procedures should be implemented to ensure that all vendors under covered transactions are checked against the federal website for vendors that could be suspended or debarred prior to transacting with such vendors or another process as allowed by the federal regulations discussed above.

**III. Federal Award Findings and Questioned Costs, Continued**

**Finding 2019-004 Procurement, Suspension and Debarment, Continued**

Management  
Response and  
Corrective  
Action Plan:

Management agrees with this finding and is working to ensure all vendors under covered transactions are checked against the federal website for vendors that could be suspended or debarred prior to transacting with such vendors or another process as allowed by the federal regulations discussed above. The University does have the suspension and debarment disclosures as a part of its formal sealed solicitation process for purchases greater than \$50,000 that are subject to the procurement code. In addition to this we will work with Procurement to ensure during the procurement process that the vendors are checked against the federal website by our Supplier Management Team.

**Finding 2019-005 Perkins Loan Program**

Federal Agency: Department of Education

Program: Federal Perkins Loan Program (CFDA 84.038)

Criteria or Specific Requirement: For students with Perkins loans, the University must convert the loan to repayment in a timely manner which is nine months after the student ceases to be at least a half-time regular student (34 CFR section 674.31(b)(2)).

Condition: The University did not communicate correct separation date (the date the student ceased to be at least a half-time regular student) to ECSI in a timely manner.

Cause: The University was under the impression that student separation dates were communicated to ECSI on a periodic basis throughout the year from two different sources; indirectly from the University's Registrar's office through the National Student Clearinghouse (the "Clearinghouse") and directly from the University's Bursar's office. The University's Bursar's office only submits graduation reports to ECSI, so any student separation dates for events other than graduation would have to be reported to ECSI by the Clearinghouse. Upon review, the University discovered that the Clearinghouse was not communicating separation dates to ECSI. The University was unaware that this service required additional steps for activation with ECSI. Since there was no communication between the Clearinghouse and ECSI, dates that students dropped below half-time or withdrew were not being reported to ECSI. Therefore, the date ECSI used as the students' separation date was the graduation date as reported by the Bursar's office, if the student reached graduation. If the student had dropped below half time, but had not graduated, no separation date was ever reported to ECSI.

**III. Federal Award Findings and Questioned Costs, Continued**

**Finding 2019-005      Perkins Loan Program, Continued**

**Effect:**                      The student’s loan was converted to repayment 48 months later than required. This error had no impact on the total repayment cost of the loans.

**Questioned Costs:**      \$0

**Context:**                      Approximately 741 students who had received Perkins loans entered repayment during the period July 1, 2018 through June 30, 2019. Of these students, we examined 25 students’ files and determined that for one student who did not return to the Fall 2013 semester, the University did not report the student as separated until prior year finding 2017-001 was communicated to the University (this resulted in a 48 month delay in the repayment start date).

**Repeat Finding:**              Although some circumstances may differ, this finding is substantially the same as one aspect of finding 2018-004 that was reported the prior year.

**Recommendation:**        Procedures should be implemented whereby regular review of student enrollment information reported to ECSI and NSLDS is reviewed by the University to ensure accuracy, consistency and completeness.

**Management  
Response and  
Corrective**

**Action Plan:**                      Management agrees with this finding. When this finding was initially shared during the 2017 audit, procedures were put into place for withdrawal/drop dates to be automatically communicated with ECSI via the Clearinghouse to keep it consistent with NSLDS. Manual graduation reports are no longer sent to ECSI. ECSI produces a report every Saturday of exits from the Clearinghouse for the University to review, when applicable. The Bursar’s Office reviews that report every Monday to approve exits. The Bursar’s Office also performs manual reviews of reports between ECSI and the University to ensure that the process put in place is working correctly. Occasionally, we find that an account did not transition as expected. In these cases, we work with ECSI to correct the account and determine where the error occurred.

**III. Federal Award Findings and Questioned Costs, Continued**

**Finding 2019-006      Fiscal Operations Report and Application to Participate (FISAP)**

Federal Agency:      Department of Education

Program:      Student Financial Aid Cluster

Criteria or Specific Requirement:      According to 34 CFR 673.3, an institution is required to file an application to participate in the Federal Perkins Loan (FPL), Federal Work-Study (FWS), and Federal Supplemental Education Opportunity Grant (FSEOG) programs, which includes all information required by the Department of Education. In addition, Uniform Guidance in 2 CFR 200.303, requires nonfederal entities receiving federal awards to establish and maintain effective internal control designed to reasonably ensure compliance with federal laws, regulations and program compliance requirements. Effective internal controls should include procedures to ensure amounts reported in the FISAP are adequately supported.

The 2018-2019 FISAP instructions for the 2017-2018 Operations Report for Part II, Section E, Line 24, requires institutions to report the amount of state grants and scholarships expended for the award year, excluding any state awards for which the school has the final decision on which students receive the funds.

Condition/Context:      The FISAP is submitted annually to report award expenditures for the previous year and to apply to participate in the following year. The University submits five separate FISAPs: one for each four-year campus (Columbia, Aiken, Beaufort, and Upstate), and one that includes all of the two-year campuses (Regionals). During our testing of the FISAPs for the program year ended June 30, 2019, we noted individuals responsible for completing the FISAP were unsure of certain reporting requirements; additionally, there was a lack of controls over the review process for the FISAP prior to submission, resulting in inaccurate costs reported. Part II, Section E, Line 24 of the report submitted for award expenditures for FY18 was inaccurate for all campuses:

- A. Upstate - Improperly excluded Teaching Fellows, thereby understating expenditures on this line by \$285,000
- B. Regionals-Improperly included SC Need Based Grants, thereby overstating expenditures on this line by \$538,785

Cause:      Each University campus' FISAP is compiled by a different individual, and these individuals were unclear on which state grants should or should not be included in this line item. The University does not have adequate internal controls to allow for proper review and verification of the report's accuracy.



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# University of South Carolina

## Schedule of Findings and Questioned Costs

For the year ended June 30, 2019

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### III. Federal Award Findings and Questioned Costs, Continued

**Finding 2019-007      Drug and Alcohol Abuse Prevention Program**

Federal Agency:      Department of Education

Program:              Student Financial Aid Cluster

Criteria or Specific  
Requirement:

Per 34 CFR 86.100 and Section 120 of the Higher Education Act, an Institution of Higher Education must adopt and implement a drug and alcohol abuse prevention program that, at a minimum, includes the annual distribution to each student and employee of—

1. standards of Conduct that clearly prohibit, at a minimum, the unlawful possession, use, or distribution of illicit drugs and alcohol by students and employees on the institution's property or as part of any of the institution's activities;
2. a description of the applicable legal sanctions under local, State, or Federal law for the unlawful possession or distribution of illicit drugs and alcohol;
3. a description of the health-risks associated with the use of illicit drugs and the abuse of alcohol;
4. a description of any drug or alcohol counseling, treatment, or rehabilitation or re-entry programs that are available to employees or students; and
5. a clear statement that the institution will impose sanctions on students and employees (consistent with local, State, and Federal law), and a description of those sanctions, up to and including expulsion or termination of employment and referral for prosecution, for violations of the standards of conduct required by (1) above.

Additionally, the institution's program must be reviewed biennially by the institute to—

1. determine its effectiveness and implement changes to the program if they are needed;
2. determine the number of drug and alcohol-related violations and fatalities that occur on the institution's campus or as a part of any of the institution's activities and are reported to campus officials;
3. determine the number and type of sanctions described in paragraph (5) above that are imposed by the institution as a result of drug and alcohol-related violations and fatalities on the institution's campus or as part of any of the institution's activities; and
4. ensure that the sanctions required by paragraph (5) above are consistently enforced.

**III. Federal Award Findings and Questioned Costs, Continued**

**Finding 2019-007      Drug and Alcohol Abuse Prevention Program, Continued**

Condition/Context:      During our testing of the drug and alcohol abuse prevention program, we noted the following:

- A. For the Columbia and Upstate Campuses, the program did not include a description of the health-risks associated with the use of illicit drugs and the abuse of alcohol;
- B. For the Columbia and Aiken Campuses, a biennial review was completed, however, it did not contain information regarding the number of drug and alcohol-related fatalities nor the number and type of sanctions that were imposed by the school as a result of drug and alcohol-related violations.
- C. For the Beaufort, Lancaster, Salkehatchie, Sumter, and Union campuses, a formal internal biennial review of the program was not performed for the years ended June 30, 2019 or June 30, 2018.

Cause:                      The campuses were unaware of these requirements.

Effect:                      The campuses identified in the condition/context are not in compliance with 34 CFR 86.100 and Section 120 of the Higher Education Act. Failure to comply with federal standards could ultimately result in these campuses being ineligible to receive federal funds.

Questioned Costs:      \$0

Repeat Finding:          Although some circumstances may differ, this finding is substantially the same as finding 2018-008 that was reported the prior year.

Recommendation:      Procedures should be implemented and enforced to ensure that the drug and alcohol abuse prevention program contains all of the required elements and that biennial reviews of the drug and alcohol abuse prevention program are performed in a timely manner in accordance with 34 CFR 86.100 and Section 120 of the Higher Education Act.

Management  
Response and  
Corrective

Action Plan:              Management agrees with the finding and acknowledges the continued efforts of each campus to update policies and procedures and to document reviews to ensure compliance. We offer the following individual campus responses:

- A. Columbia - A description of the health risks associated with the use of illicit drugs and the abuse of alcohol is not included in the annual notification. We plan to work with the Department of Law Enforcement and Safety to ensure this information is included in the Annual Security Report for 2020 and the suggested changes are listed in Appendix C of the 2018 Biennial Review (pages 105-109).

**III. Federal Award Findings and Questioned Costs, Continued**

**Finding 2019-007      Drug and Alcohol Abuse Prevention Program, Continued**

Upstate - Management acknowledges this finding and has revised our website to reflect health-risks associated with the use of illicit drugs and the abuse of alcohol. Moving forward we will work with our Human Resources Department, Department of Public Safety, Health Services, and Office of Institutional Equity, Inclusion and Engagement to ensure that biennial reviews of the Drug and Alcohol Abuse Prevention program are performed in a timely manner and to ensure that the documentation required is provided and made available to all University employees and students at the Upstate campus.

- B. Columbia - The Biennial Review for 2016-2018 will be updated to include the number of drug and alcohol-related fatalities and the number and type of sanctions that were imposed by the school as a result of drug and alcohol-related violations. This update will be completed by June 30, 2020. We are creating a template to ensure that future Biennial Reviews will include all the necessary information.

Aiken - USC Aiken is able to provide the requested information on alcohol and drug-related fatalities and sanctions but was unaware of the requirement to publish this information online. We will post the required information on our website by January 1, 2020.

- C. Palmetto College as well as our regional campuses (USC Lancaster, USC Salkehatchie, USC Sumter and USC Union) acknowledge this finding and will work to implement procedures to ensure that biennial reviews of the Drug and Alcohol Abuse Prevention program are performed in a timely manner and will ensure that policies and procedures are made available to all Palmetto College faculty, staff and students.

Beaufort - Management acknowledges this finding and will work with our Human Resources Department, Department of Public Safety and Counseling Office to ensure that biennial reviews of the Drug and Alcohol Abuse Prevention program are performed in a timely manner and to ensure that the documentation required is provided and made available to all University employees and students at the Beaufort campus.

**III. Federal Award Findings and Questioned Costs, Continued**

**Finding 2019-008      Enrollment Reporting**

Federal Agency:      Department of Education

Program:              Student Financial Assistance Cluster

**Criteria or Specific Requirement:**

The National Student Loan Data System (NSLDS) is the U.S. Department of Education’s centralized database for students’ enrollment information. For students who receive Title IV aid, the University is required to report enrollment status changes to the NSLDS in a timely and accurate manner. These changes include reductions or increases in attendance levels, withdrawals, graduations, or approved leaves-of-absences. The University utilizes the National Student Clearinghouse (the “Clearinghouse”) as a service provider for transmissions of its enrollment reporting changes to the NSLDS. The University is ultimately responsible for the timeliness and accuracy of this information even when a third-party servicer is used as an intermediary to report on the University’s behalf.

Per 34 CFR 682.605(b), the school must use the withdrawal date determined under 34 CFR 668.22(c) for the purpose of reporting to the lender and the Secretary the date that the student has withdrawn from the school. Per 34 CFR 668.22(c), if a student unofficially withdraws, the withdrawal date should be the mid-point of the term or the student’s last date of attendance at an academically-related activity provided that the institution documents that the activity is academically related and documents the student’s attendance at the activity.

Per 34 CFR 685.309(b), unless the University expects to submit its next updated enrollment report to the Secretary within the next 60 days, the University must notify the Secretary within 30 days after the date it discovers that a loan under Title IV of the Act was made to or on behalf of a student who was enrolled or accepted for enrollment at the school, and the student has ceased to be enrolled on at least a half-time basis or failed to enroll on at least a half-time basis for the period for which the loan was intended.

Condition:              The University reported incorrect withdrawal dates to the NSLDS for students who received Title IV aid. Additionally, the University did not report withdrawal dates for students who received Title IV aid to the NSLDS in a timely manner.

**III. Federal Award Findings and Questioned Costs, Continued**

**Finding 2019-008      Enrollment Reporting, Continued**

**Cause:**                      The University receives the Enrollment Reporting Roster every 60 days and updates it for changes in student status. The file is sent to the Clearinghouse who transmits the updated information to NSLDS. These students unofficially withdrew from the University during the year and the University's current grading and enrollment reporting processes did not allow for these students to be reported in a timely manner. Instead, they were captured when the first roster file for the following semester was submitted and they were not included, at which point a withdrawal status was automatically reported with the last date of the prior term attended as the effective date. The University did not update the actual effective date of withdrawal for these students.

**Effect:**                      A student's enrollment status determines eligibility for in-school status, deferment, and grace periods, as well as for the payment of interest subsidies to FFEL Program loan holders by ED. Inaccurate and untimely reporting of student enrollment status changes could result in incorrect deferment, grace periods, billing, and repayment of student loans.

**Questioned Costs:**      \$0

**Context:**                      Of the 782 students who received Title IV aid and withdrew during the period July 1, 2018 through June 30, 2019, we examined 40 students' files and determined that incorrect withdrawal dates were reported to the NSLDS for 10 students. Differences in dates ranged from 13 days to 141 days. We also determined that 7 students' withdrawal dates were not reported to NSLDS within the required 60 days from the date of determination. Delays in reporting ranged from 117 to 175 days.

**Recommendation:**      We recommend that all personnel involved in this process across all campuses meet formally to address processes, scenarios, and responsibilities to ensure accuracy and consistency across all campuses. Procedures should be implemented whereby a regular review of enrollment reporting compliance requirements are taking place to ensure that reporting is in accordance with guidelines set forth in the *NSLDS Enrollment Reporting Guide* and the Department of Education's *Federal Student Aid Handbook*.

**Management  
Response and  
Corrective**

**Action Plan:**                      Management agrees with this finding. The University of South Carolina - Columbia will develop procedures to ensure that enrollment reporting is performed in accordance with guidelines set forth in the *NSLDS Enrollment Reporting Guide* and the Department of Education's *Federal Student Aid Handbook*. The development of these procedures will involve all campuses, to ensure that a system-wide, consistent approach is designed and implemented. Regular reviews will be conducted to ensure that these procedures are followed.

**III. Federal Award Findings and Questioned Costs, Continued**

**Finding 2019-009      Return of Title IV Funds**

Federal Agency:      Department of Education

Program:              Student Financial Aid Cluster

Criteria or Specific  
Requirement:

When a recipient of Title IV grant or loan assistance withdraws from an institution during a payment period or period of enrollment in which the recipient began attendance, the institution must determine the amount of Title IV grant or loan assistance that the student earned as of the student's withdrawal date (34 CFR 668.22(a)). If the total amount of Title IV assistance earned by the student is less than the amount that was disbursed to the student or on his or her behalf as of the date of the institution's determination that the student withdrew, the difference must be returned to the Title IV programs as outlined in 34 CFR 668. The percentage of Title IV grant or loan assistance earned by the student is 100% if the student withdraws after completion of 60 percent of the payment period (34 CFR 668.22 (e)(2)(ii)(A)).

As the University utilizes a standard, term-based calendar, the treatment of Title IV grant or loan funds if a student withdraws must be determined on a payment period basis (34 CFR 668.22(e)(5)). Based on 34 CFR 668.4, for a program that measures progress in credit hours and uses standard terms, the payment period is the academic term. The academic year is made up of academic terms. Per 34 CFR 668.3, the academic year consists of a minimum of 30 weeks of instructional time. A week of instructional time is defined as any week in which at least one day of regularly scheduled instruction or examinations occurs or, after the last scheduled day of classes for a term or payment period, at least one day of study for final examinations occurs. Therefore, the payment period should include any week in which a final examination occurs.

Condition/Context:      In performing calculations to determine the amount of aid earned by students who received Title IV funds and withdrew prior to the end of the academic term, the University used the last day of classes rather than the last day of exams to determine the payment period. This resulted in the incorrect payment period being applied in the return calculations. From a population of 782 students who received Title IV funds and withdrew from the University, 40 students were selected for testing; for 39 of these students, the University utilized an incorrect payment period when completing the required return calculation.

Cause:                  The University was operating under an incorrect interpretation of the regulations governing the length of an academic term.

**III. Federal Award Findings and Questioned Costs, Continued**

**Finding 2019-009      Return of Title IV Funds, Continued**

**Effect:**                      The percentage of Title IV aid earned was overstated. For 12 of these 39 students, the percentage of Title IV aid earned was still greater than 60% after adjusting the payment period, and therefore, there was no effect on the amount of aid earned by the student. For the remaining 27 students, the use of the incorrect payment period resulted in an incorrect amount of aid being returned to the Department of Education by the University and students.

**Questioned Costs:**      \$9,894

**Recommendation:**      We recommend that the University’s Financial Aid and Registrar’s Offices work together to ensure that the correct term dates as defined by the regulations are input into Banner in order to allow for accurate calculations.

**Management  
Response and  
Corrective  
Action Plan:**

After discussion with the U.S. Department of Education, the University of South Carolina agrees with this finding. The financial aid offices at each campus will work with their respective campus Registrar staff to ensure that the term end dates for each part of term, as configured in Banner, represent the last date of exams rather than the last date of scheduled classes



Vice President for Finance &  
Chief Financial Officer

**University of South Carolina**

***Summary Schedule of Prior Audit Findings For the year ended June 30, 2019***

In accordance with *Government Auditing Standards*, issued by the Comptroller General of the United States, the following is the status of known material findings and recommendations from prior year audits:

**Finding 2018-001: Capital Assets**

**Condition:** In prior years, the University's capital asset module was not fully updated for disposals that were identified during the University's annual physical count. The Controller's Office assumed responsibility for the annual physical count for fiscal year 2018. As a part of the analysis, significant adjustments were needed to correct these prior year omissions. However, in some instances, the adjustments to the capital asset module resulted in misclassifications in the financial statements (services and supplies, depreciation, and loss on disposal) and in the footnotes.

***Current Action Taken/Current Status:***

Procedures are now in place to ensure that physical inventory is conducted timely and any necessary adjustments are subject to manager review.

**Finding 2018-002: Funds Due From (Held For) Others**

**Condition:** The University acts as an agent on behalf of others and at year-end holds funds for others or is due funds from others. At June 30, 2018, the University improperly grossed up these amounts and overstated both funds due from others and funds held for others by approximately \$15.6 million and \$13.1 million, respectively. As part of this misstatement, the University understated noncurrent restricted cash and deposits by approximately \$2.6 million and \$100,000, respectively. These misstatements had no impact on the Statement of Revenues, Expenses and Changes in Net Position and no impact on ending net position.

***Current Action Taken/Current Status:***

Procedures have been implemented to calculate the amounts held for and due from others to avoid grossing up these amounts reported on the University Statement of Net Position as of June 30, 2019.

### **Finding 2018-003: Grants**

**Condition:** The following grant conditions were identified during the current year:

- a. The University recognized approximately \$8 million of federal grant revenue in the current year that should have been recognized in prior years.
- b. The University provided us with multiple versions of the SEFA. One revised version included approximately \$2.8 million of additional expenditures for the following loan programs; Perkins, Nursing Faculty, Health Professions Student, and Nursing Student. Other revised versions included changes in CFDA numbers and awarding agency names which resulted in the Trio Cluster exceeding the Uniform Guidance Type A threshold for major program determination.
- c. The Controller's Office identified that the University's Grants and Funds Management Department failed to perform timely reconciliations of individual grant awards and bill for incurred and allowable expenditures during prior years.

**Current Action Taken/Current Status:**

- a. The University has implemented procedures to ensure that all grant revenue is recognized in the appropriate fiscal year.
- b. Management continues to improve the information that is used to compile the details of the SEFA. Changing procedures for the initial recording of awards helps to ensure all identifying information is included in the Grant module for subsequent inclusion in the SEFA.
- c. Timely reconciliations of individual grant awards are now performed regularly, and new billing procedures were implemented for timely and accurate invoicing.

### **Finding 2018-004: Student Financial Aid Administration**

**Condition:** We noted the following conditions during our testing the Student Financial Assistance Cluster:

- a. The University did not communicate correct separation dates (the date the student ceased to be at least a half-time regular student) to ECSI in a timely manner.
- b. There were inconsistencies between separation dates reported to ECSI and to the NSLDS by the University.

**Current Action Taken/Current Status:**

The interface between the National Student Clearinghouse and ECSI is still in place. The Bursar's Office has gained access to NSLDS and the Clearinghouse to gain further insight into the workflow. We have noticed that the dates that the Clearinghouse sends notifications to ECSI and NSLDS does vary, however, in the cases we've reviewed, the status dates reported for the students are the same. We will continue to manually monitor this process until we are certain that all processes are consistently working as expected.

### **Finding 2018-005: Verification**

**Condition:** A student was improperly awarded a Pell Grant totaling \$4,970.

**Current Action Taken/Current Status:**

A new quality control report process was implemented based upon the uncommon and unique situation that resulted in this finding.

**Finding 2018-006: Borrower Data Transmission (COD Reporting)**

**Condition:** For one student, the loan disbursement date in the COD system did not agree with the disbursement date in Banner.

**Current Action Taken/Current Status:**

Upstate campus - We are following the procedures of checking the loan reject reports from Banner and correcting them as soon as possible. Sometimes that involves canceling the loan and re-originating it to COD for acceptance. This process should produce a new disbursement date in COD. We also canceled loans that students had not accepted by October 1<sup>st</sup>.

**Finding 2018-007: Fiscal Operations Report and Application to Participate (FISAP)**

**Condition:** The FISAP is submitted annually to report award expenditures for the previous year and to apply to participate in the following year. The University submits five separate FISAPs: one for each four-year campus (Columbia, Aiken, Beaufort, and Upstate), and one that includes all of the two-year campuses (Regionals). During our testing of the FISAPs for the program year ended June 30, 2017, we noted individuals responsible for completing the FISAP were unsure of certain reporting requirements; additionally, there was a lack of controls over the review process for the FISAP prior to submission, resulting in inaccurate costs reported. Part II, Section E, Line 24 of the report submitted for award expenditures for FY17 was inaccurate for all campuses:

- a. Columbia-Improperly included SC Need Based Grants, thereby overstating expenditures on this line by \$3,354,884
- b. Aiken-Improperly excluded SC National Guard and Teaching Fellows, thereby understating expenditures on this line by \$183,750
- c. Beaufort-Improperly included SC Need Based Grants, thereby overstating expenditures on this line by \$427,142
- d. Upstate - Improperly excluded Teaching Fellows, thereby understating expenditures on this line by \$285,000
- e. Regionals-Improperly included SC Need Based Grants, thereby overstating expenditures on this line by \$493,383

**Current Action Taken/Current Status:**

- a. Columbia no longer includes SC Need Based Grant in Part II, Section E, Line 24. The most recent FISAP was completed based upon this action taken.
- b. Aiken - The annual FISAP will be submitted in a timely manner with accurate data and reviewed by the new Director of Financial Aid prior to submission. The finding has been addressed going forward beginning with a correction that was made on the FISAP for award year 2017-2018 submitted in November 2018.
- c. Beaufort - The corrected FISAP was subsequently loaded excluding Need Based Grants and FY 19 FISAP was correctly stated following the FISAP policy and procedures to exclude SC Need-Based Grants from the FISAP in accordance with the FISAP instructions and the University's records. The completed FISAP is now reviewed by the Beaufort campus Controller prior to submission.
- d. Upstate - The annual FISAP for the 18-19 award year included the funds from Teaching Fellows. Current procedures require review of the FISAP draft by the Vice Chancellor of Finance and the Budget Manager prior to submission.

### **Finding 2018-007: Fiscal Operations Report and Application to Participate (FISAP), Continued**

#### ***Current Action Taken/Current Status, Continued:***

- e. Regionals - The FISAP for award year 2017-18 was already submitted and it was after the correction deadline when we were aware of the finding (January 2019). The new Financial Aid Director has submitted the 2018-19 FISAP with the correct data based on the new policy. In addition, the FISAP policy and procedures have been updated to exclude SC Need-Based Grants from the FISAP in accordance with the FISAP instructions and the University's records.

### **Finding 2018-008: Drug and Alcohol Abuse Prevention Program**

**Condition:** During our testing of the drug and alcohol abuse prevention program, we noted that a formal internal biennial review of the program was not performed for the years ended June 30, 2018 or June 30, 2017.

#### ***Current Action Taken/Current Status:***

For the Columbia campus the drug and alcohol abuse prevention program biennial review was finalized in August 2018 for the years ended June 30, 2018 and June 30, 2017. Procedures have been put in place to ensure all future reviews will be conducted regularly as required and include all required information. Other campuses included in the University system have begun reviews or have plans in place to complete in the current fiscal year.

### **Finding 2018-009: TRIO – Upward Bound Core Curriculum**

**Condition:** The University's Upward Bound program did not offer or provide all required core curriculum classes during the academic years 2016-2017 and 2017-2018.

#### ***Current Action Taken/Current Status:***

The University has hired two instructors to teach the required core courses. Further, all the required Upward Bound core curriculum classes are included for the current academic year. The US Department of Education communicated that they considered the finding resolved based on steps taken by the University to ensure compliance and the review of that information by the US Department of Education. Resolution of the finding was communicated to the University in June 2019.

### **Finding 2018-010: TRIO – Earmarking**

**Condition:** The Salkehatchie campus did not meet the earmarking requirements for the SSS program for the September 1, 2016 through August 31, 2017 reporting period.

#### ***Current Action Taken/Current Status:***

SSS at Salkehatchie contacts disability services twice a semester (at the start; at the end) to check for documented disabilities of students registered with the SSS program. SSS staff also email applications to students that are not registered in our program to invite them to sign up for SSS services. The US Department of Education communicated that they considered the finding resolved based on steps taken by the University to ensure compliance and the review of that information by the US Department of Education. Resolution of the finding was communicated to the University in June 2019.