

University of South Carolina

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

For the year ended June 30, 2018

University of South Carolina

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

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University of South Carolina
Schedule of Expenditures of Federal Awards
For the year ended June 30, 2018

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
Research and Development Cluster				
US Department of Agriculture				
Evaluation of Farm to Institution Programs (Specialty Crop Block Grant)	10.RD	11580FL23	\$ 2,682	\$ 5,961
Identifying Maimaiga Source Strength	10.RD	16-CA-11420004-129	-	27
Identifying Maimaiga Source Strength	10.RD	17-CA-11420004-276	-	10,173
Perennial Biomass Crop Establishment and Environmental Impacts in the Midwestern United States	10.RD	2012-67009-22137	-	(3,788)
A comparative approach to identify functional amino acid response elements of genes controlling ovarian function	10.RD	2014-67016-21723	-	(54,454)
TOXIMAP: Computational Framework for Prediction of Geographical and Temporal Incidence of Mycotoxins in US Crop Fields	10.RD	2017-67017-26167	-	148,883
The Food Insecurity Experience Scale and Household/Individual Correlates of Food Insecurity	10.RD	58-3000-5-0035	-	14,932
The CIG that Changed My Life? Capturing Value of Cover Crops and Soil Health	10.RD	68-3A75-17-311	-	34,892
Five Acres in the Back 40 - Soil Health Technical Support and Education for Limited Resource and Minority South Carolina Farmers	10.RD	68-4639-17-155	-	66,126
Using Cover Crops and Soil Health to Reduce Crop Stress and Aflatoxin Contamination	10.RD	69-4639-16-269	-	18,236
Merit or Myth Social Media Platform to Advance Soil Health in South Dakota	10.RD	RISK	-	124,454
Passed through programs from:				
Hub City Farmer's Market				
Congaree River Freshwater Mussel Habitat Survey	10.RD	F17AC00529	-	3,598
Expanding the Reach of Effective Teen Pregnancy Prevention Programs in High Need South Carolina Communities (Tier 1B) (OAH1B)	10.RD	1TP1AH000133-01-00	-	9,811
NC State University				
Technical Support of Dillon SWCD 2015 CIG Proposal Demonstrating Tillage and Cover Crop Management Strategies on a Corn-wheat-soybean Rotation	10.RD	11510FB75	-	4,351
South Carolina Department of Agriculture				
Participation of Susan Lang on Expedition 357 (offshore)	10.RD	23(GG009393)	-	(431)
South Carolina Department of Health and Environmental Control				
PASOs and WIC Partnership Agreement	10.RD	CH-5-628	-	(315)
South Carolina Research Foundation				
COPASCities: Childhood Obesity Prevention in SC Communities	10.310	2012-69001-19615	-	96,419
Farm to School Grant program	10.RD	SCH DISTRICT 5	-	3,128
Improving Satellite Soil Moisture Spatial Resolution	10.RD	58-8042-5-020	-	59,648
LTER-Plum Island Ecosystems: Dynamics of Coastal Ecosystems in a Region of Rapid Climate Change, Sea-level Rise, and Human Impacts.	10.RD	52684	-	37,397
University of North Carolina at Chapel Hill				
SNAP Marketing - Sub to Hub City Farmer's Market	10.RD	SNAP-FSUP-15-SC-01	-	6,350
Total US Department of Agriculture			2,682	585,398
US Department of Commerce				
EDA 2012 University Centers Grant: Innovista Center for Product Realization	11.303	04-66-06677	-	(6)
Advancing Understanding of Risk: Expanding the Use of Elevation Certificates in Damage Assessments and Resilience Planning	11.RD	AMD9-A (R/RR-1)	-	29,874
Continuing Support of the NERR Centralized Data Management Office	11.RD	N15NOS4200136	-	(551)
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.RD	N464 (R/ER-47)	-	23,644
Indicators and Indices of Drought in Southeastern Coastal Ecosystems	11.RD	NA130AR4310173	-	11,892
The North Inlet-Winyah Bay National Estuarine Research Reserve	11.420	NA14NOS4200054	-	107
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.RD	NA15NMF4330157	-	(6,396)
North Inlet-Winyah Bay National Estuarine Research Reserve	11.RD	NA15NOS4200120	-	2,152
The North Inlet-Winyah Bay National Estuarine Research Reserve	11.RD	NA16NOS4200074	-	80,507
Continuing Support of the NERR Centralized Data Management Office	11.420	NA16NOS4200125	-	177,407
Building Adaptive Capacity in the Carolinas: The Carolinas Integrated Sciences & Assessments (CISA) Program	11.RD	NA16OAR4310163	240,753	785,422
Caribbean Hogfish: Documenting Critical Life History Information For A Data-Poor Species In Collaboration With Puerto Rican Fishers	11.RD	NA17NMF4540137	-	3,830
North Inlet - Winyah Bay National Estuarine Research ReserveNA17NOS4200061	11.RD	NA17NOS4200061	-	524,631
From Physics to Fisheries: a Social-Ecological Management Strategy Evaluation for the California Current Large Marine Ecosystem	11.RD	NA17OAR4310270	-	14,285
Innovative Fish Ageing Methods for Rapid Detection of Climate-Driven Changes in Population Demography	11.RD	R/CF-23	-	14,107
Relating Nonpoint Source BOD Loading to Land-Use and Stormwater Management Practices in Coastal South Carolina	11.RD	R/CG-3	-	3,896
Development of Models for Phytoplankton-Nutrient Responses in Support of Numeric Nutrient Criteria for Estuarine Water Quality	11.RD	R/ER-49	-	9,635
Continuing Support of the NERR Centralized Data Management Office	11.RD	RISK	-	939,200
Passed through programs from:				
National Writing Project				
Increasing Access to the North Inlet Winyah Bay National Estuarine Research Reserve for Researchers, Educators and Students	11.RD	NA16NOS4200116	-	9,301
McKing Consulting Corporation				
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.RD	N364 (R/ER-47)	23,785	23,785
How Does Coastal Development Impact Groundwater Inputs to Estuarine Tidal Creeks	11.RD	N363 (R/CP-21)	-	1,039
South Carolina Sea Grant Consortium				
Determining Sedimentation Rates in Stormwater Detention Ponds to Improve Life-Cycle Cost Assessments Associated with Maintenance Dredging	11.RD	N365 (R/ER-48)	-	273
South Carolina Research Foundation				
Carolinas Integrated Sciences and Assessments	11.431	NA11OAR4310148	76,756	215,472
South Carolina Sea Grant Consortium				
Co-Arg: Cogent Argumentation System with Crowd Elicitation	11.RD	E2040772	-	41,025
University Corp for Atmospheric Research				
Improving Drought Loss Accounting in SHELDS	11.RD	Z15-21827	-	243
C & B Technology				
How Does Coastal Development Impact Groundwater Inputs to Estuarine Tidal Creeks	11.RD	N463 (R/CP-21)	-	54,733

The accompanying notes are an integral part of this schedule.

University of South Carolina
Schedule of Expenditures of Federal Awards
For the year ended June 30, 2018

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
US Department of Commerce, continued				
Passed through programs from:				
Mary Black Foundation				
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.RD	NA13NMF4330167	-	6,904
South Carolina Department of Health and Environmental Control				
Determining Sedimentation Rates in Stormwater Detention Ponds to Improve Life-Cycle Cost Assessments Associated with Maintenance Dredging	11.RD	N465 (R/ER-48)	-	51,346
Vanderbilt University				
NOAA MARFIN and CRP: Assessment of Maturity in Commercially and Recreationally Important Reef Fishes from the U.S. Virgin Islands and Puerto Rico	11.RD	719583-712683	-	153,290
Total US Department of Commerce			341,294	3,171,047
US Department of Defense				
On-Site Graduate Assistant for Cultural Resource Management at McCrady Training Facility, 2018	12.RD	4100074494	-	11,579
Delineation and National Register Evaluation of Cultural Resources for the Adjutant General - 2018	12.RD	4100074495	-	86
Standardizing Archaeological Data Collection using the DAACS System, 2018	12.RD	4100074496	-	919
A Medium and Large Mammal Survey of the McCrady Training Center 2018	12.RD	4100074497	-	20,412
Archaeological Surveys at Laurens, Hartsville, and Myrtle Beach Facilities, and the SCIF Site at McEntire Air National Guard Station	12.RD	4100075211	-	1,342
Objective Brain Function Assessment of mTBI from Initial Injury to Rehabilitation and Treatment Optimization	12.RD	12-2016 CAS VAL	-	47,556
Medium and Large Wildlife Diversity and Abundance at the McCrady Training Site 2017-18	12.RD	13010FC57	-	19,500
Standardizing Archaeological Data Collection using the DAACS System, a Pilot Project, 2017	12.RD	21300FB07	-	25,000
Delineation and National Register Evaluation of Cultural Resources for the Adjutant General ? 2016-2017	12.RD	21300FB09	-	52,377
Archeological Phase I Survey 1500 Acres, Fort Bragg, North Carolina	12.RD	21300FB10	-	256,383
WILLARD HIRSCH PANEL CASTING AND DISPLAY	12.RD	21300FL18	-	17,000
Quantifying Multi-Scale Response of Engineered and Energetic Materials during Aggressive Conditions	12.RD	FA9550-14-1-0209	-	73,752
Analytic Methods in Arithmetic Statistics	12.RD	H98230-16-1-0051	-	3,435
Southeastern Number Theory Meetings	12.RD	H98230-16-1-0247	-	2,735
Generic objects and their automorphisms (151011)	12.RD	H98230-16-1-0309	-	19,751
Highly Effective Computational Methods in Geomagnetic Field Modeling	12.RD	HM04761812002	-	18,341
Spectral, Probabilistic, and Information-theoretic Analysis for Graphs and Hypergraphs	12.RD	N00014-13-1-0717	-	50
ESRDC - Designing and Powering the Future Fleet	12.RD	N00014-14-1-0165	-	(17,296)
A New Generation of Acoustic Emission Smart Sensors	12.RD	N00014-15-1-2102	-	41,583
Development of Universal Controller Architecture for SIC Based Power Electronic Building Blocks	12.RD	N00014-15-1-2346	-	46,321
Upper Ocean Mixing Processes and Circulation in the Arabian Sea during Monsoons using Remote sensing, Hydrographic observations and HYCOM simulations	12.RD	N00014-15-1-2591	-	160,253
Bubble/Vapor Slug Dynamics in a Confined Domain	12.RD	N00014-16-1-2307	-	150,378
High-Speed, Scalable, System Level, Real-Time Simulation	12.RD	N00014-16-1-3042	-	79,579
Response of the Bay of Bengal to the Atmospheric Intraseasonal Oscillations	12.RD	N00014-17-1-2468	-	44,595
Hypergraph-based Causal Modeling	12.RD	N00014-17-1-2842	-	69,544
Distributed Condition Prognostics System for Navy Shipboard Machinery	12.RD	N000174-17-1-0006	29,925	125,800
Operation-Aware ISHM for Environmental Control and Life Support in Deep Space Habitats	12.RD	NNX17CA31P	-	21,820
Electric Ship Research and Development (ESRDC FY17-21)	12.RD	R01851	-	72,318
The Social Structural Foundations of Reputation, Cooperation and Prosocial Behavior	12.RD	W911NF-15-1-0131	30,864	88,159
Optimal Functionally Graded Cellular Materials (FGCMs) to Mitigate Shock and Impact Loading	12.RD	W911NF-18-1-0023	-	44,702
Historic Context Development for Cultural Resources Program, Fort Jackson, SC	12.RD	W9126G-16-2-0017	-	25,711
BA 2 (Pilot Study) Archaeological Mitigation Final Analyses and Reporting for Archaeological Sites 38RD837/841/843/844, located at Fort Jackson, South Carolina	12.RD	W9126G1720026	-	24,784
Passed through programs from:				
Carnegie Mellon University				
On-Site Graduate Assistant for Cultural Resource Management at McCrady Training Facility, 2017-18	12.RD	21300FB08	-	9,483
SC Office of the Adjutant General				
Longitudinal Study of Post-Deployment Pain Management Using DoD and VA Data	12.RD	403462	-	15,418
South Carolina Department of Health and Human Services				
Experimental and Analytical Study of Low Amplitude AE signals due to Rubbing/Clapping of Crack Faying Surfaces	12.RD	N00014-17-1-2829	-	66,757
South Carolina Research Foundation				
Highly Effective Compression and Evaluation of Geodetic Quantities	12.630	HM01771210004	-	21,981
DIRC-based PID for the EIC Central Detector	12.RD	218624	-	51,567
University of North Carolina at Chapel Hill				
Electric Ship Research and Development (ESRDC FY17-21)	12.RD	R01851	-	910,626
National Writing Project				
Electric Ship Research and Development (ESRDC FY17-21)	12.RD	R01851	-	237,458
Total US Department of Defense			60,789	2,861,759

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US Department of Interior				
Rural Health Research Center Cooperative Agreement 2014-2015	15.RD	SU1CRH30539-02-00	-	107,814
Optimization of Marsh Restoration for Storm Surge Abatement and Sea Level Rise	15.677	F14AC01068	18,371	47,936
Upscaling Coastal Carbon Monitoring from Points to Polygons: Using Satellite Data to Improve Blue Carbon Monitoring and				
Verification in Wetland Sediments under REDD+	15.RD	G15AC00094	-	67,376
Sediment Trapping Program in the Gulf of Mexico	15.RD	G17PX00135	-	19,355
Boundary Definition and GPS Mapping: Parker's Ferry Battlefield	15.RD	GA-2287-15-024	-	4,419
Atlantic Offshore Wind Energy Development: Geophysical Mapping, Oceanographic Data Collection, and Identification of				
Paleolandscapes and Historic Shipwrecks Offshore South Carolina	15.RD	M15AC00001	-	31,974
Archaeological Research and Educational Program for the Southern Campaigns	15.RD	P13AC00443	-	30,553
CESU Congaree National Park agreement (Environmental Research and Education Collaboration)	15.RD	P13AC00443	-	161
Development of Interdisciplinary Curriculum-Based Lesson Plans for Grades K-8 at Congaree National Park	15.RD	P13AC00443	-	20,719
Modeling Salt Marsh Condition and Resiliency in four National Parks Based on Local Sea Level Rise Predictions to Assist Park				
Managers in Understanding Local Conditions and to Develop Mitigation Strategies	15.RD	P13AC000443	-	34,329
Developing Pattern Recognition Software to Reconstruct Prehistoric Native American Pottery Designs	15.RD	P16AP00373	-	20,811
Appomattox Court House Historic Park CESU - Archaeological Survey of Hannah Reynolds Site	15.RD	P17AC00668	-	48,987
South Carolina Civil Rights Teacher Institute	15.RD	P17AP00073	-	34,374
Passed through programs from:				
University of Central Florida				
Atlantic Offshore Wind Energy Development: Geophysical Mapping, Oceanographic Data Collection, and Identification of				
Paleolandscapes and Historic Shipwrecks Offshore South Carolina	15.RD	M15AC00001	-	41,132
South Carolina Research Foundation				
Sediment Trapping Program in the Gulf of Mexico	15.RD	G11PX01039	-	(816)
South Carolina Department of Health and Environmental Control				
South Carolina Continental Shelf Seismic Data Extraction for Offshore Sand Resources: Data Inventory, Digital Data Conversion, and Needs Assessment	15.RD	SCDNR FY2017-015	-	22,285
South Carolina Sea Grant Consortium				
Atlantic Offshore Wind Energy Development: Geophysical Mapping, Oceanographic Data Collection, and Identification of				
Paleolandscapes and Historic Shipwrecks Offshore South Carolina	15.RD	M15AC00001	-	32,924
Atlantic Offshore Wind Energy Development: Geophysical Mapping, Oceanographic Data Collection, and Identification of				
Paleolandscapes and Historic Shipwrecks Offshore South Carolina	15.408	R/BOEM-1b	-	1,425
South Carolina Department of Agriculture				
Conservation Adaptation Planning for Landscape and Climate Changes in the Southeast	15.RD	2014-3086-01	-	77,345
Southern States Energy Board (SSEB)				
Human and Ecological Health Impacts Associated with Water Reuse: Engineered Systems for Removing Priority Emerging Contaminants	15.RD	1827-216-2021030	41,951	62,389
Total US Department of Interior			60,322	705,492
US Department of Justice				
An Evaluation of a Social Interaction Training Program to Reduce the Use of Force and Build Legitimacy	16.RD	2016IJ-CX-0018	201,287	301,233
Chief Research Advisor to examine and develop effective researcher/practitioner partnerships in law enforcement.	16.RD	2016ADR8228	-	148,111
Interconnecting PBIS and School Mental Health to Improve School Safety: A Randomized Trial	16.RD	2015-CK-BX-0018	978,051	1,249,397
Youth Violence and Victimization: Predicting Responses to Peer Aggression	16.RD	2016-R2-CX-0056	-	14,881
Passed through programs from:				
South Carolina Research Foundation				
Columbia Police Department's Smart Policing Initiative: Continued Evaluation	16.RD	NONE	-	14,611
Total US Department of Justice			1,179,338	1,728,233
US Department of State				
Justice Sector Training, Research, and Coordination Program (JusTRAC)	19.RD	S-INLEC-14-CA-1034	-	868,273
Study of U.S. Institutes for Student Leaders from Europe Institute in Civic Engagement	19.RD	102224	-	46,287
Passed through programs from:				
Northwestern University				
Study of U.S. Institutes for Student Leaders from Europe	19.RD	S-ECAGD-CA-1060	-	120,675
Total US Department of State			-	1,035,235
US Department of Transportation				
Adaptive Signal System Safety Impacts	20.RD	1976-223-2012248	-	14,872
Center for Connected Multimodal Mobility	20.RD	1919-211-2021810	-	60,724
High-Strength Reduced-Modulus High Performance Concrete (HSRM-HPC) for Prestressed Concrete Tie Applications	20.RD	DTFR53-14-C-00023	85,000	27,071
Robust Feature Tracking Through Serial Section Microstructural Image Data	20.RD	S-109-233-001	-	2,358
Passed through programs from:				
Clemson University				
Cost Effective Strategies for Estimating Statewide AADT	20.RD	1804-223-2010468	-	1,559
Operational and Economic Analysis of Access Management	20.RD	1789-223-2010325	-	(1,680)
Drexel University				
Effects of the SCI Microenvironment on Intra-Axonal Signaling	20.RD	800030-5826	-	212,999
College of Charleston				
Center for Connected Multimodal Mobility	20.RD	1919-211-2021810	-	33,553
Total US Department of Transportation			85,000	351,456
Library of Congress				
Teaching with Primary Sources - University of South Carolina	42.RD	GA16C0090	-	63,214
Total Library of Congress			-	63,214

The accompanying notes are an integral part of this schedule.

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National Aeronautics and Space Administration				
Nonlinear Parameter-Varying Aeroservoelastic Reduced Order Model For Aerostructural Sensing And Control	43.RD	9172	-	66,325
AlN-Based Extreme Band Gap mm-wave Electronics	43.RD	60063064	-	93,013
Evaluation of a New Policy Promoting Nutrition and Physical Activity in Family Child Care in South Carolina - Sub-contract with Johns Hopkins University	43.RD	2003548903	-	444,369
Subcontract Response to DE-FOA-0001647: High temperature reactor catalyst material development for low cost and efficient solar driven sulfur-based processes	43.RD	15510FC99	-	145,189
Novel semiconductor Warpage Measurement Device	43.RD	15540FD75	-	11,171
USC SC Space Grant Consortium Award	43.RD	521179-CD-USC	-	1,000
Carolina Eclipse Initiative Proposal:The Air Across the Path	43.008	521179-EC-USC	-	1,275
Controls on Floodplain Circulation Defined by In Situ Observations, Numerical Simulations and Remote Sensing	43.008	521253-USC	-	104,883
Evaluation of Risk and Capacity Development for Two Indian River Basins	43.RD	80NSSC18K0433	-	21,678
TC1 2C19: High Energy Dynamic Impact	43.RD	C15-2A38-USC	-	54,587
2C22 - TC3 - Design for Manufacturing (DFM) Software Development	43.RD	C16-2A38-USCAR	-	53,697
TC1 2C18: Progressive Damage Analysis	43.RD	C16-2A38-USCAR	-	47,947
TC1 2C20: Rapid Tools	43.RD	C16-2A38-USCAR	-	89,348
TC2 2C21: Rapid Inspection	43.RD	C16-2A38-USCAR	-	5,390
TC3 2C24: Closed -Loop Control of AFP Heating	43.RD	C16-2A38-USCAR	-	19,369
TC3 2C26: Bonding Surface Treatment and Inspection	43.RD	C16-2A38-USCAR	-	17,409
South Carolina Clinical & Translational Research Institute (SCTR)	43.RD	MUSC18-039-8B122	-	21,189
TC3 2C24: Closed -Loop Control of AFP Heating	43.RD	NNL09AA00A	-	7,736
Multi-scale Computational Non-destructive Evaluation (NDE) for Composites	43.RD	NNL15AA16C	-	180,247
Oxygen Recovery via Carbon Dioxide Electrolysis with Microtubular Solid Oxide Cells	43.RD	NNX14AB26G	-	138
Mathematical Modeling and Simulation of Space based Droplet Combustion - Scientific Support to the FLEX1 and FLEX2 Program	43.RD	NNX14AG46A	-	43,424
Connecting the Interstellar Gas and Dust Properties of Distant Galaxies	43.RD	NNX14AG74G	-	93,389
Miniature Spatial Heterodyne Time-Resolved Raman Spectrometer (SHRS) for Planetary Surface and Subsurface Boreholes Mineralogy	43.RD	NNX14AI34G	22,061	119,238
Determination of Available Water Capacity for the Mekong River Basin using model, satellite and ground observations	43.RD	NNX14AO05G	-	15,359
Comparative Study of Available Water in the Major River Basins of the World	43.RD	NNX15AN39G	-	1
Improved Hydrologic Decision Support for the Lower Mekong River Basin Through Integrated Remote Sensing and Modeling	43.RD	NNX16AT86G	-	33,040
Effect of External Thermo-Convective Perturbation on Cool Flame Dynamics: A Multidimensional Multi-Physics CFD Analysis	43.RD	NNX17AF97A	-	32,984
Connecting the Different Signatures of Interstellar Dust at Low Redshift: A Benchmark for Comparison to the Distant Universe	43.RD	NNX17AJ26G	25,923	37,977
The Revolutionary Era Pinckney Statesmen of South Carolina: a Digital Documentary Edition	45.RD	RQ-230547-15	-	11,225
Research Scientist in Automated Fiber Placement and Associate Technologies	43.RD	T18-606016-USC	-	19,988
Passed through programs from:				
College of Charleston				
EPSCoR/IDEA State Committee Distribution - NASA EPSCoR	43.RD	521000-USC	-	7,944
Los Alamos National Laboratory				
Facility Modeling for Separations and Safeguards	43.RD	270137	-	(5,245)
Medical University of South Carolina				
Brain Connectivity Supporting Language Recovery in Aphasia	43.RD	MUSC14-031	-	149,134
National Institute of Aerospace				
NSF SBIR NSF 16-554 Semiconductors (S) and Photonic (PH) Devices Materials Topic: S3. Processing and Metrology Technology	43.RD	15540FD38	-	(1)
South Carolina Department of Transportation				
Debra Wallace Assignment Agreement	43.RD	NASA	-	(11,526)
South Carolina Research Foundation				
Physiological Impacts of Climate Change Using Remote Sensing	43.009	NNX11AP77G	-	(21,141)
Downscaling of Passive Microwave Soil Moisture Using Vegetation and Surface Temperature	43.RD	NNX12AP75G	-	33,218
Molecules in the Distant Universe: Herschel Spectroscopy of Damped Lyman-alpha Quasar Absorbers	43.RD	1427151	-	645
New Approaches to understanding the MJO using Satellite Altimetry and Aquarius Salinity in the Tropical Oceans	43.RD	NNX13AM60G	-	(581)
Refsdal Redux : Precise Measurements of the Reappearance of the First Supernova with Multiple Resolved Images	43.RD	HST-GO-14199.019-A	-	10,530
Star Formation and Molecular Gas in Distant Galaxies: SPIRE Spectroscopy of Quasar Absorption Systems	43.RD	1456904	-	10,444
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	-	13,659
Total National Aeronautics and Space Administration			<u>47,984</u>	<u>1,979,665</u>
National Endowment for Humanities				
Diverse Voices: Traditional Music in South Carolina	45.024	15-5500-7083	-	(442)
The Revolutionary Era Pinckney Statesmen of South Carolina, A Digital Documentary Edition: Phase 3	45.RD	RQ-255751-17	-	63,441
AEO-Light 2.0: An Open Source Application for Image-Based Digital Reproduction of Optical Film Sound	45.149	PR-50207-15	-	13,616
Total National Endowment for Humanities			<u>-</u>	<u>76,615</u>

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National Science Foundation				
A Real-time Analysis Tool based on Surrogate Models for Accurate Prediction of Combined Flight External Loads	47.RD	9246	-	78,272
Partnership in Implementation Science for Geriatric Mental Health (PRISM) - Administrative Core	47.RD	117722	-	20,154
Partnership in Implementation Science for Geriatric Mental Health (PRISM) - Prism Capacity Building Component	47.RD	117729	-	17,115
Partnership in Implementation Science for Geriatric Mental Health (PRISM) - Prism Scale Up Study	47.RD	117730	-	106,678
REU Site: Undergraduate Research in Physics at the University of South Carolina	47.RD	1263047	-	9,500
Banach Spaces and Applications	47.RD	1361461	-	14,770
Collaborative Research: A Molecular-to-Continuum, Data-Driven Strategy for Mucus Transport Modeling	47.RD	1410047	-	49,771
SHF: Small: Collaborative Research: The Automata Programming Paradigm for Genomic Analysis	47.RD	1421059	-	4,500
Collaborative Proposal: Impacts of Energy Extraction and Coal-Fired Power Plants on Disinfection by-Product Formation in Water	47.RD	1438625	6,143	58,118
NSF Graduate Research Fellowship: Benjamin Davis	47.076	1450810	-	6,627
Career: A Few Layer Thin, Graphene-Based Membranes: Nanostructure Understanding, Permeation Mechanisms and Separation Application	47.RD	1451887	-	21,788
Collaborative Research: Evolutionary Origins of Chiton Shell-eyes: Integrating Structure, Function, and Gene Expression within a Phylogenetic Context	47.RD	1457148	-	124,126
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.RD	1457622	-	49,541
GEO-Scholar: Broadening undergraduate participation in the geosciences	47.RD	1458416	-	104,254
Collaborative Research: US GEOTRACES Arctic section; Nd and REE cycling in the Arctic Ocean	47.RD	1458936	-	40,211
Collaborative Research: On the Origin of Atomic Layer Deposition Enhanced Activity and Stability of Nanostructured Cathodes for Intermediate-temperature Solid Oxide Fuel Cells	47.RD	1464112	-	95,443
Studies of the Activation and Functionalization of Hydrocarbons at Multinuclear Metal Sites in Transition Metal-Gold Complexes	47.RD	1464596	-	161,563
Collaborative Research: I/UCRC Phase I: Center for Rational Catalyst Synthesis	47.RD	1464630	-	75,018
Collaborative Research: Algebra and Algorithms, Structure and Complexity Theory	47.RD	1500216	-	19,243
Stability, Derived Categories, and Mirror Symmetry	47.RD	1501813	-	31,254
SciLAF: Scientific-based Learning Assessment Framework for Student Knowledge Tracking	47.RD	1504728	-	6,394
The Study of Nuclear Physics with Intermediate Energy Probes	47.RD	1505615	-	355,830
GOALI: Collaborative Research: Energy Harvesting Nanorods-enhanced MEMS Temperature-insensitive Gas Sensor for Combustion Monitoring and Control	47.RD	1508139	-	37,647
UNS: Novel Probes to Quantify the Relative Importance of Ion and Particle Uptake When Assessing Nanoparticle Bioavailability	47.RD	1508931	4,075	103,311
Collaborative Research: A Contact Lens-Based Glucose Nanosensor Using Affinity Polymer-Functionalized Graphene	47.RD	1509076	-	20,687
UNS: Selective Catalytic Conversion of Syngas-Derived Dimethyl Oxalate to Ethylene Glycol: Mechanistic Insights from In-Situ Surface Vibrational Spectroscopy	47.RD	1510157	-	207,557
UNS: Engineered Nanomaterial Impact on Long-Term Stability of MSW Landfill and Leachate Treatment Pond Geomembrane Liners	47.RD	1510869	-	62,192
Collaborative Research: Study of Amyloid Protein Oligomerization using Microchannel Electrophoresis	47.RD	1511562	-	99,416
High Surface Free Energy Anchoring of Bimetallic Core Shell Particles	47.RD	1511615	-	266,403
II-New: SC-CAN: South Carolina's Wireless Communication and Airborne Networking Collaboratory	47.RD	1513107	-	52,301
II-New: Acquisition of a Heterogeneous Team of Field Robots for Coastal Environments	47.RD	1513203	-	81,764
Collaborative Research: Kinetic to Continuum Modeling of Active Anisotropic Fluids	47.RD	1517347	-	81,632
Fast and Stable Compact Exponential Time Difference Based Methods for Some Parabolic Equations	47.RD	1521965	-	70,085
FSML: High-Resolution Acoustic Imaging Sonar for Research and Education at the Baruch Marine Field Laboratory	47.RD	1522490	-	(64)
Collaborative Research: Reduced Order Modeling of Realistic Noisy Flows	47.RD	1522672	-	2,095
NRJ: Collaborative Research: ASPIRE: Automation Supporting Prolonged Independent Residence for Elderly	47.RD	1525900	-	100,588
RI:Small:Collaborative Research: Why is automating the design of robot controllers hard, and what can be done about it?	47.RD	1526862	-	35,706
DMREF: Collaborative Research: Design and Discovery of Multimetallic Heterogeneous Catalysts for a Future Biorefining Industry	47.RD	1534260	-	76,772
Collaborative Research: Investigating the Lost City as an Ultramafic Urban Center of the Seafloor, Fueled by Energy and Carbon from the Mantle	47.RD	1536702	-	56,761
Collaborative Research: Geochemistry of IODP Site 1438 and West Philippine Basin Volcanic Rocks: Constraints on Subduction Initiation and the Early Development of the Izu-Bonin-Mariana (IBM) Arc	47.RD	1537135	-	8,330
Collaborative Research: Generation of Internal Waves Due to the Scattering of Semidiurnal Hybrid Kelvin-edge Waves at Varying Continental Shelf Topography	47.RD	1537449	-	49,602
DIMENSIONS: Links Between Spectral Irradiance and Cryptophyte Biodiversity in Environments from Ponds to Oceans	47.RD	1542555	-	349,713
MATH: EAGER: Collaborative Research: Implementing a Peer-Mentorship Model for Mathematics Graduate Student Instructors	47.RD	1544346	-	7,992
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.RD	1551640	-	23,050
CAREER: Well-Defined Hybrid Materials as a Versatile Tool to Study Energy Transfer Processes	47.RD	1553634	-	78,074
CAREER: Detection and Quantification of Metal-Based Engineered Nanoparticles in Surface Waters	47.RD	1553909	-	50,207
CAREER: Mechanism of Cytochrome P450 Alkene Biosynthesis	47.RD	1555066	-	129,381
Mutational Variance of the Transcriptome and the Origins of Phenotypic Plasticity	47.RD	1556645	-	122,416
Collaborative Research: Effects of Changing Temperature on the Gulf of Alaska Ecosystem	47.RD	1558787	-	55,208
A New Method for Assessing the Magnitude and Impact of Shallow Seawater/Pore water Exchange in Salt Marsh Systems	47.RD	1559274	-	89,936
Collaborative Research: SusChEM: Rational Design of Non-Precious Metal Catalysts for a Future Biorefining Industry	47.RD	1565964	-	41,589
Extremal and Probabilistic Combinatorics with Applications II	47.RD	1600811	-	22,708
Southeastern Number Theory Meetings	47.RD	1601239	-	2,780
RAPID - Plume Dynamics under Increased Sediment Discharge following Floods	47.RD	1603957	-	19,788
Interaction of Nitrogen and Sulfur Species with Oxygen Carriers in Chemical Looping with Oxygen Uncoupling	47.RD	1606874	-	67,748
Facial Amphiphilic Antimicrobials Biomaterials Containing Fused Multicyclic Structures	47.RD	1608151	20,715	124,654
Functional Organic Nanotubes from Self-Assembled Bis-Urea Macrocycles	47.RD	1608874	-	203,038
Rational Design of Surface Modified Nanoparticles for Modulation of Amyloid Protein Aggregation	47.RD	1609939	-	125,468
Equilibrium Thermodynamics of Semiconductor Nanocrystal Ligand and Ion Exchange via Calorimetry	47.RD	1613388	-	117,438
Constructive Approximation and Harmonic Analysis	47.RD	1613790	-	5,270
Neutrino-less Double-Beta Decay with CUORE and the MAJORANA DEMONSTRATOR	47.RD	1614611	-	318,615
Collaborative Research: Equipment for the PSI MUSE Experiment	47.RD	1614773	-	145,208
RAPID: Patterns of Fluvial Sedimentation and Geomorphic Change Following an Extreme Flood Event	47.RD	1615154	1,346	1,971
Fractional PDEs and related nonlocal models: fast numerical methods, analysis, and application	47.RD	1620194	-	5,343
Hybrid Computational Methods and Algorithms for Complex Biological Systems	47.RD	1620212	-	37,866

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University of South Carolina
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
National Science Foundation, continued				
Collaborative Research: Water Concentration and Distribution in the Oceanic Lithosphere	47.RD	1624315	-	82,419
Collaborative Research: The Embeddedness of Indirect and Generalized Reciprocity	47.RD	1626056	-	42,194
DMREF: Collaborative Research: Designing Optimal Nanoparticle Shapes and Ligand Parameters for Polymer-Grafted Nanoparticle Membranes	47.RD	1629052	-	66,694
EAGER: Modulation of the Inflammatory Response for Accelerated Tissue Vascularization and Bone Regeneration	47.RD	1631439	-	(8,306)
Impact of Ocean Acidification on Planktonic Foraminifera in the California Current System during the Last 300 Years	47.RD	1631977	-	131,670
EAGER: Synthesis of New Ferrolites: Zeolites Containing an All-Iron Framework The First of a New Family of Transition Metal Based Zeolites?	47.RD	1633866	-	116,814
NRI: Enhancing Mapping Capabilities of Underwater Caves using Robotic Assistive Technology	47.RD	1637876	-	201,019
Science Learning+: STEM Teens: Examining the Role of Youth Educators as Learners and Teachers in Informal STEM Learning Sites	47.RD	1647131	37,239	95,893
Doctoral Dissertation Research: The Intersections of Health and Wealth: Socioeconomic Status, Frailty, and Mortality in Industrial England	47.RD	1649757	-	10,078
CAREER: An All-Optical Plasmonic Device to Control and Coupled Quantum Dots for Optical and Quantum Information Processing	47.RD	1652720	-	78,785
CAREER: The Fundamental Principles of Modified Carbon Fiber Microelectrodes as Speciation Sensors	47.RD	1654111	-	117,088
CAREER: Carborane Cluster Architectures Featuring Multiple Metal-Boron Interactions	47.RD	1654301	-	100,148
19th International Symposium on Field- and Flow-based Separations (FFF2018)	47.RD	1655926	-	4,000
Identifying a New Circuit That Controls Feeding Behavior: Leptin and Serotonin Interactions	47.RD	1656626	-	205,264
CRII: SHF: Understanding The Role of Software Test Adequacy Metrics in Search-Based Test Generation	47.RD	1657299	-	89,122
Algorithm Development for Reconstruction of Design Elements	47.RD	1658987	-	42,097
REU SITE: Collaborative Research: Integrated Academia-Industry Research Experience for Undergraduate in Smart Structure Technology (IAIRESST)	47.RD	1659507	-	30,538
REU Site: Applied Computational Robotics	47.RD	1659514	-	111,339
Standardized Goodness of Fit Assessment and Power Computations in Structural Equation Models	47.RD	1659936	-	189,219
Collaborative research: The Role of pCO2 in the Astronomically-Paced Climatic Cycles of the Miocene	47.RD	1702783	-	31,858
SusChEM: GOALI: Drinking Water Safety and Sustainability: Identifying Key Chemical Drivers of Toxicity for Long-Term Solutions in the United States	47.RD	1705206	-	62,759
Plasma Discharge in Liquids: Understanding the Initiation and Formation Mechanisms of Non-Thermal Plasma in Dense Medium	47.RD	1707282	-	26,281
Multidimensional Methods for Kinetics in Complex Materials	47.RD	1707813	-	128,780
Collaborative Research: Fundamental Understanding of the Environmental Fate of Disinfection By-Products arising from Desalination Plants	47.RD	1708461	-	16,473
Comprehensive Models of Non-Covalent Aromatic Interactions	47.RD	1709086	-	169,446
SusChem: In-situ oligomerization to immobilize contaminants in groundwater.	47.RD	1709786	-	108,104
Minority Carriers in Graphene/SiC Schottky Emitter Bipolar Phototransistors for High Gain Visible Blind UV Detection	47.RD	1711322	-	174,250
An Integrated Framework for the Optimal Control of Vehicle-to-Grid Systems	47.RD	1711767	12,460	48,520
Nonlinear Approximation in Geometric, Harmonic and Anisotropic Settings with Applications	47.RD	1714369	-	18,979
Collaborative Research: Efficient, Stable and Accurate Numerical Algorithms for a class of Gradient Flow Systems and their Applications	47.RD	1720212	-	34,191
Optimal Convergence Rates for hp-Adaptivity	47.RD	1720297	-	101,127
SBE-RCUK: Diet, Migration, and Health in the Context of Medieval Mortality Crises	47.RD	1722491	-	14,264
Collaborative Research: Scalable and Flexible Algorithms to Detect Structural Change in Complex Sequence Data	47.RD	1722562	-	23,743
Technique Development for Caffeinated Beverage Identification	47.RD	1724426	-	23,705
Collaborative Research: Mathematics Graduate Student Peer-Mentorship Program: Impact and Adaptability	47.RD	1725295	-	62,945
COLLABORATIVE RESEARCH: SAVANT: Stable Atmospheric Variability And Transport	47.RD	1733746	-	28,058
FG 2017 Doctoral Consortium Proposal for Travel Support for Graduate Students	47.RD	1733800	-	11,748
Type I: University of South Carolina I-Corps Site for Entrepreneurship	47.RD	1735728	-	63,827
Groundwater Sources of ?new? N for Benthic Microalgal Production in the South Atlantic Bight	47.RD	1736557	-	74,047
The Molecular Nature of Environmentally Persistent Free Radicals on Nanoparticles	47.RD	1738337	-	28,294
RII Track-4: Molecular Understanding of Salt-Induced Selective Aggregation and Selective Sorption of Dissolved Organic Matter to Natural Particles	47.RD	1738340	-	42,747
Support for the Peromyscus Genetic Stock Center	47.RD	1738774	-	280,159
CPS: Medium: Collaborative Research: Against Coordinated Cyber and Physical Attacks: Unified Theory and Technologies	47.RD	1739886	-	10,750
CBMS Conference: Additive Combinatorics from a Geometric Viewpoint	47.RD	1743625	-	36,260
The Development of Axion Software for CUORE	47.RD	1747860	-	42,113
The Ninth Annual Graduate Student Mini-conference in Computational Mathematics	47.RD	1748357	-	6,849
CAREER: Tunable Isomorphic Architectures	47.RD	1752615	-	32,435
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.RD	1753518	-	58,009
New Lanthanide-Containing Silicate Fluoride Scintillators for Radiation Detection	47.RD	1806279	-	12,242
General Strategies Toward Mechanically Robust Biobased Polymers and Composites	47.RD	1806792	-	6,119
I-Corps: Therapeutic Composition of Natural Compounds for Wound Healing	47.RD	1811949	-	57,474
Collaborative Research: Capacity Building: Building a Cybersecurity Pipeline through Experiential Virtual Labs and Workforce Alliances	47.RD	1822567	-	53,137
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.RD	1833312	-	22,267
Population-base Diabetes in Youth Registry	47.RD	5102576	-	38,043
A Design Automation Tool for Integrated Nanophotonics based on Compact Modeling and Model Order Reduction	47.RD	20160865	-	110
Algorithms and Module Development for Accurate and Rapid Load Analysis and Design of Experiments	47.RD	20180064	-	2,447
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	47.RD	3004659122	-	28,573
From NECAP to GCAP: Transferring Climate Adaptation Knowledge and Tools from New England to Georgetown, SC	47.RD	3004694006	9,495	23,856
Characterization and Modeling of Accident Tolerant SiC Cladding	47.RD	4500068895	-	334,896
The Effect of Humidity and Partide Composition on Partitioning of Volatile Organic Compounds	47.RD	45038819545	-	94,800
Microbial Dysbiosis and Systemic Inflammation in Gulf War Illness	47.RD	11510FB88	-	34,238
Subcontract to SC Commission on Minority Affairs for USDA Community Food Projects Proposal	47.RD	11540FA90	-	7,293
Leveraging Social Media to Augment Certified South Carolina by Millennial Consumers	47.RD	15-FSMIP-SC-0006	-	11,159
Reconfigurable Pixel Based Conformal Load Bearing Antenna Structures (CLAS)	47.RD	15-S2606-04-C18	-	300

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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
National Science Foundation, continued				
Subaward: ENLACE: A Promotora-Led Physical Activity Intervention Trial for Latinas in Texas	47.RD	160128/160125	-	16,371
Digitization TCN: Collaborative Research: The Key to the Cabinets: Building and Sustaining a Research Database for a Global Biodiversity Hotspot	47.RD	1772-206-2010242	-	3,065
High Impact Innovative Assistive Technology Grant	47.RD	18140FQ00	-	74,754
External Review of the Core Competencies of SRNL	47.RD	1873-205-2011517	-	(554)
NSF INCLUDES Statewide Consortium Supporting Underrepresented Populations in Precalculus by Organizational Redesign toward Engineering Diversity (SC:SUPPORTED)	47.RD	1987-206-2012226	-	22,817
Evaluation of a Law Enforcement Motor-Vehicle Crash Prevention Program	47.RD	212-2014-M58154	34,324	42,763
Subaward to Quantifying NETosis Via Automated High Content Imaging Assay And Neural Networks	47.RD	21400FA46	-	19,316
WeatherMan: A Novel Mission Planning Tool using Gridded Weather Ensemble Forecasting Data	47.RD	2171-1	-	3,141
Internet Assisted Obesity Treatment: Enhanced by Motivational Interviewing	47.RD	291775UB51777	6,773	301,787
Controls on Floodplain Circulation Defined by In Situ Observations, Numerical Simulations and Remote Sensing	47.RD	521253-USC	-	144,656
South Carolina IDEA Network of Biomedical Research Excellence (INBRE) Admin Core - Year One of Competing Renewal	47.RD	5P20GM103499-17	-	19,651
The TEDDY Study	47.RD	6119-1276-00-AV	-	(8,236)
To Provide Technical Assistance and to Promote Soil Health Through the Conservation Stewardship Program	47.RD	68-4639-15-528	-	20,017
GHS-REACH - A Caregiver coaching intervention for High Risk Patient/Caregivers to Extend Dementia Capable Services.	47.RD	7315-2	-	10,124
FLU2TXT	47.RD	820102USC	-	71,441
CAREER: Uncertainty Quantification in the Rational Design of Bifunctional Catalysts	47.RD	CBET-1254352	-	127,030
Collaborative Research: Deciphering Induced-Charge Electrokinetics: Multiscale Simulations and Nanoscale Flow Characterization	47.RD	CBET-1336004	-	49,299
Nanotips Induced Boundary Layer to Enhance Flow Boiling in Microchannels	47.RD	CBET-1336443	-	25,178
EPRI: On-demand Sweating-Boosted Air Cooled Heat-Pipe Condensers for Green Power Plants	47.RD	CBET-1357920	-	58,424
Electrochemical Capture of CO2 and Instant Conversion into Syngas: A Combined Mechanistic and Engineering Approach	47.RD	CBET-1401280	-	29,436
Collaborative Research: Advanced Zeolite-Composite Adsorbents with Fine-Tuned Pore Sizes for Molecular Sieving Separations	47.RD	CBET-1402772	-	6,149
Cancer Stem Cell Mechanotransduction in Engineered Matrix	47.RD	CBET-1403545	-	47,100
Evaluation of the Role of Size Dispersity on Nanoparticle Uptake and Ecotoxicity	47.RD	CBET-1437307	-	28,711
SHF: Small: Collaborative Research: The Automata Programming Paradigm for Genomic Analysis	47.RD	CCF-1421059	-	32,747
Understanding the Chemical Activity of Oxide-supported Bimetallic Clusters	47.RD	CHE-1300227	-	39,024
Development of Functional Polymer-Protein Core-Shell Nanoparticles	47.RD	CHE1307319	-	1,891
Instrument Development: A Miniature, High-resolution, Stationary Grating Spatial Heterodyne UV Raman Spectrometer-Towards				
Miniature UV Raman Sensors and Raman on a Chip	47.RD	CHE-1308211	-	(3,854)
Reaction Networks in Environmental Systems: Connecting Reactive Oxygen Species Generation and Particle Formation during the Oxidat	47.RD	CHE-1308801	-	-
Molecular Balance for Measuring Molecular-Level Anion Effects on Amino Acids	47.RD	CHE-1310139	-	(1,608)
Multidimensional Methods for Kinetics in Complex Materials	47.RD	CHE-1403027	-	17,760
Collaborative Research: Processing and Assembly of Devices with Tailored Magnetic Properties	47.RD	CMMI-1436560	-	1,485
IGERT: Functional Nanomaterials for Sustainable Energy Solutions	47.RD	DGE-1250052	-	707,492
CAREER: Metal-Semiconductor Hybrid Core-Shell Heteronanostructures with Geometrically Tunable Optical Properties	47.RD	DMR-1253231	-	99,165
Crystal Growth of Complex Luminescent Oxides	47.RD	DMR-1301757	-	1,252
Extremal and Probabilistic Combinatorics with Applications	47.RD	DMS-1300547	-	(18)
Mathematical Modeling and Computational Studies for Proliferation Kinetics of Cancer Tumor Growth with Spatial-Temporal Dynamics	47.RD	DMS-1308948	-	7,493
Multiscale Computational Methods with Applications in Materials Science and Tissue Engineering	47.RD	DMS-1318866	-	5,765
Phase-field Models, Algorithms and Simulations for Multiphase Complex Fluids	47.RD	DMS-1418898	-	28,403
Enabling the Future: Scholarships in Computational Science	47.RD	DUE-1259283	-	101,993
The Internal Structure of Deposits Emplaced under Upper Plane Bed/Sheet Flow Transport Conditions: Laboratory Experiments and Numerical Modeling	47.RD	EAR-1250641	-	(1,721)
Fluid and Chemical Fluxes Across the Seafloor of a Passive Margin	47.RD	EAR-1316250	-	136,476
Collaborative Research: Sea-Level Rise and Salt-Marsh Response: a Paleo Perspective	47.RD	EAR-1322859	-	1,018
Intergovernmental Personnel Act (IPA)- National Science Foundation	47.RD	EAR-1744664	-	161,516
Defect Engineered Graphene Gate in a Subthreshold SiC MESFET for Emissions Sensing	47.RD	ECCS-1309466	-	(57)
REU Site: Cradle to the Grave - CO2 Opportunities and Challenges	47.RD	EEC-1358931	-	41,385
Development of a TSA Process for CO2 Removal Using a Structured 13X Adsorbent	47.RD	ES62.12.01.LSS0.000.01	-	28,344
Developing a Robust, Non-contacting, Digital Image Correlation Based Full-field Strain Measurement System for High Temperature Applications	47.RD	FA8650-15-M-2600	-	7,340
RII Track-2 FEC: Catalysis for Renewables: Applications, Fundamentals and Technologies (CRAFT)	47.RD	FY2016-032	-	632,517
Image Guided Delivery of Bioresponsive Hydrogels	47.RD	GR102135;CON-80001159	-	12,003
Radiofrequency of Hydride Materials	47.RD	G-SOW-A-01877	-	9,929
Support of the Modular Chemical Process Intensification Manufacturing Institute	47.RD	G-SOW-A-01937	-	45,619
Development of ALGE code	47.RD	G-SOW-A-02012	-	3,794
Data Analysis, Computer Vision, and Machine Learning for Plutonium Canister Corrosion Surveillance	47.RD	G-SOW-A-02021	-	18,544
Uncovering and Penetrating CBRN Networks: A General Methodology for Mapping Covert Social Networks	47.RD	HDTRA1-15-1-0065	-	6,772
Turning Gravitationally Lensed Supernovae into Cosmological Probes	47.RD	HST-AR-15050.002-A	-	18,821
RELICS : Reionization Cluster Lensing Survey	47.RD	HST-GO-14096.014-A	-	4,131
Collaborative Research: I/UCRC on Grid-Connected Advanced Power Electronic Systems (GRAPES), Phase II	47.RD	IIP-1439689	-	26,797
Regulation of Floral Growth and Patterning in Arabidopsis Thaliana	47.RD	IOS-1354452	39,614	119,792
South Carolina Cancer Health Equity Consortium (SC CHEC)	47.RD	MUSC15-076	-	16,563
Antigenic Determinants of Asthma-Associated Allergens for Design of Immunotherapy	47.RD	NONE	-	111,972
Collaborative Research: The Cariaco Basin Oceanographic Time Series	47.RD	OCE-1258991	-	66,819
Collaborative Research: Isotopic Insights to Mercury in Marine Food Webs and How it Varies with Ocean Biogeochemistry	47.RD	OCE-1433313	-	9,613
Collaborative Research: Climate Change and Upwelling -- Comparative Analysis of Current & Future Responses of the California and Benguela Ecosystems	47.RD	OCE-1434530	-	16,206
NSF Intergovernmental Personnel Act (IPA) Assignment: Dr. George Voulgaris	47.RD	OCE-1725081	-	261,929
NSF EPSCoR Research Infrastructure Improvement (RII) Track 1	47.RD	OIA-1317771	-	(448)
RII Track 1: Materials Assembly and Design Excellence in South Carolina: MADE in SC	47.RD	OIA-1655740	777,562	1,193,518
RII Track-2 FEC-Genome to fitness: An analysis of the stress response in Peromyscus	47.RD	OIA-1736150	66,625	305,561
Participation in the Construction and Operation of the CUORE and Majorana Neutrinoless Double-Beta Decay Experiments	47.RD	PHY-1307204	-	13,846

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Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
National Science Foundation, continued				
Bioavailability of Arctic Soil Carbon: Examining the Relationship Between Chemical Composition and Lability During the Holocene	47.RD	PLR-1417711	-	10,016
Degradation and Performance Studies of ALD Stabilized Cathodes	47.RD	RC107812-USC	-	35,592
A Resource for Functional Genomics to Support Soybean Genetics and Breeding	47.RD	RC371-288/S000906	-	96,734
Telerobotics Research	47.RD	RF543-G2	-	14,452
A Novel Hollow Fiber Membrane Reactor for High Purity H2 Generation from Thermal Catalytic NH3 Decomposition	47.RD	RISK	-	98,008
From Soybean Oil to Commodity Biobased Fatty Alcohols and Vinyl Monomers	47.RD	RISK	-	22,677
Rule of Law Certificate Program	47.RD	RISK	-	65,610
South Carolina IDeA Network of Biomedical Research Excellence (INBRE) Admin Core - Year One of Competing Renewal	47.RD	RISK	29,211	61,238
Metal-Organic-Framework Glasses as Radioactive Contaminant Sequesters and Nuclear Waste	47.RD	UC150	-	6,316
Dysregulation of the PACT-mediated crosstalk between protein kinases PKR and PERK contributes to dystonia 16 (DYT16).	47.RD	W81XWH1810088	-	42,231
High Efficiency Micro/Nano-pillar UVC Light Emitting Diodes	47.RD	W911NF-18-1-0029	-	128,611
Surgery to Prevent Postinfarction Ventricular Remodeling - Subcontract	47.RD	2R01HL06395414A	-	182,587
Passed through programs from:				
Brown University				
Balance after Baby	47.RD	6201.25-S02	-	(8,078)
Clemson University				
Digitization TCN: Collaborative Research: The Key to the Cabinets: Building and sustaining a research database for a global biodiversity hotspot	47.RD	1774-206-2010242	-	5,268
College of Charleston				
Explore a Unified, Ultra-efficient, and Gravity-insensitive Flow Boiling Regime for Space Missions	47.RD	521154-USC	31,599	105,684
Exposure and Emotion Regulation as Predictors of Adjustment to Trauma	47.RD	FY2016-116	-	128,789
Concurrent Technology Corporation				
ONR Corrosion FNC REPAIR TOOL	47.RD	150200016	-	97,627
Connecting Health Innovations, LLC				
Phase 2: Developing the Dietary Inflammatory Index for Clinical Application (subcontract)	47.RD	R44DK103377-02	-	(7,312)
LiveWell Greenville				
Assessment of Park Quality Improvements and Inequities between 2014 and 2017	47.RD	11570FB23	-	3,584
Marine Biological Laboratory (MBL)				
Sea-level rise and coastal sustainability: A cross-site comparison of non-linearity in salt marsh persistence and feasible social adaptations	47.RD	49616	-	51,411
SC Department of Education				
New PSA Cycle for CO2 Removal and Concentration during Closed-Loop Human Space Exploration Missions	47.RD	NONE	-	(33,344)
Smithsonian Astrophysical Observatory				
AGNs Formed in Protogalaxies Associated with Sub-DLAs	47.RD	GO5-16098B	-	(1)
South Carolina Research Foundation				
The PIE-LTER: Interactions Between External Drivers, Humans and Ecosystems in Shaping Ecological Process in a Mosaic of Coastal Landscapes and Estuarine Seascapes.	47.050	45246	-	75
A Genetic Model for Early-Onset Breast and Colon Cancer in African Americans	47.RD	000503061-001	-	(33,640)
Sub-award NIH-RO1: HIV Nucleocapsid Protein and Gag Polyprotein Nucleic Acid Chaperone Activity	47.RD	60048848	-	12,913
CAREER: African American Father Engagement and Early Adolescents' Academic and Social Adjustment	47.075	BCS-1150963	-	(90)
CAREER: Integrated Modeling for Watershed Management	47.082	CBET-0846244	-	(1,087)
CAREER: Hydrothermal Carbonization of Mixed Feedstocks: Implications for Sustainable Waste Management	47.041	CBET-1055327	-	7,192
Collaborative Research: Rational Design of Bifunctional Catalysts for the Conversion of Levulinic Acid to Gamma-valerolactone	47.RD	CBET-1159863	-	(17)
Simulation of Integrated Urban Infrastructure Systems using Component-based Modeling	47.041	CMMI-1100227	11,699	8,640
Collaborative Research: Pattern Transfer Nanomanufacturing with Magnetically-Recorded Nanotemplates	47.041	CMMI-1130636	-	(1,276)
Career: Linking Microbial Phylogenetic and Functional Gene Diversity to Microbial Mat Ecosystem Function Following Environmental Disturbance	47.074	DEB-1149447	-	72,790
Materials World Network: Ceramic Anode-Supported Solid Oxide Fuel Cells with High Performance and Tolerances towards Carbon Deposition and Sulfur Poisoning	47.RD	DMR-1210792	-	21,572
Career: Renewable Polymers and Composites Derived from Hydrocarbon-Rich Natural Rosin	47.RD	DMR-1252611	-	18,284
Collaborative Research: Experimentally Guided Mathematics for the Mechanochemistry of Cell Shape Dynamics	47.RD	DMS-1200487	-	1,761
Novel Beam Steering Apertures and Waveforms for High Capacity Broadband Wireless Nodes	47.RD	ECCS-1247503	-	9,629
CAREER: Smart RF/Microwave Components Using Nano-Film Slow Wave Elements	47.RD	ECCS-1253929	-	48,980
CAREER: Towards Multimodal and Multialgorithm Facial Activity Understanding by Audiovisual Information Fusion	47.070	IIS-1149787	-	113,753
SHB: Type II(INT):Collaborative Research: Creating Learning Systems with Mobile Technology to Improve Coordination in Perioperative Services	47.RD	IIS-1237080	-	85,576
Regulation of Genetic Recombination in Mammals	47.074	MCB-1157416	-	11,655
Linking Variation in Metabolic Processes as a Key to Prediction	47.050	OCE-1129166	-	(1,684)
PIRE: Modeling of Flood Hazards and Geomorphic Impacts of Levee Breach and Dam Failure	47.079	OISE-0730246	81,604	133,309
South Carolina State University				
Remote Acculturation, U.S. Media Exposure, and Cigarette Smoking Among Mexican Youth	47.RD	R782	-	24,157
Space Telescope Science Institute				
Probing Structure in Cold Gas at z <~ 1 with Gravitationally Lensed Quasar Sightlines	47.RD	HST-GO-13801.001-A	-	31,334
The Trustees of Columbia Univ. in NYC				
NOS Roadmap FY15 Stimulus Funding Coastal Intelligence and Resilience Integration with NOS Place-Based Observing Networks: Increasing Awareness and Enhancing Collaborations within OCM/NERRS and IOOS	47.RD	NA11NOS0120033	-	(5,114)
University of Georgia				
Subaward: A Genetic Resource for Gene Discovery in Soybean	47.RD	RC371-229/S000765	-	(541)
University of Michigan				
A Collaborative Science Program for the National Estuarine Research Reserve System: With End Users Throughout the Applied Research Process	47.RD	3003300692	-	131,580
University of Puerto Rico				
SBIR Phase II: Infusion Resins for Automated Dry Fiber Placement Products	47.RD	15540FD18	-	34,252
Total National Science Foundation			1,170,484	16,453,898

The accompanying notes are an integral part of this schedule.

University of South Carolina
Schedule of Expenditures of Federal Awards
For the year ended June 30, 2018

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
US Department of Veterans Affairs				
Implementation & Evaluation of Training for VA Emergency Department Staffing Methodology - IPA	64.RD	544-C60988	-	(1,887)
VA/IPA	64.RD	544-D65001	-	57,452
Decreased CNS Leptin Activity in Comorbid Obesity and Depression.	64.RD	544-D65004	-	4,756
IPA from the VA for Dr. Chris Wood	64.RD	544D65010	-	25,769
IPA - HRV Biofeedback in Pain Patients: Pilot Intervention for Pain, Fatigue & Sleep	64.RD	544-D65011	-	11,855
VA Contract VA268-16-C-0004 Swine Housing	64.RD	544-D67003	-	10,043
Contract for Animal Husbandry Services for Dorn VA Medical Center	64.RD	544-D67012	-	22,477
Contract for Animal Husbandry Services for Dorn VA Medical Center	64.RD	544-D70004	-	24,646
VA/IPA	64.RD	544-D75001	-	20,017
IPA	64.RD	544-D75013	-	128,508
VA Contract VA268-16-C-0004 Swine Housing	64.RD	544-D77000	-	(335)
Contract for Attending Veterinarian Services for Dorn VA Medical Center	64.RD	544-D77101	-	22,998
VA Contract VA268-16-C-0004 Swine Housing	64.RD	544-D87004	-	21,250
IACUC Program Support - Administrative Services	64.RD	VA247-17-P-2248	-	8,519
Total US Department of Veterans Affairs			-	356,068
US Environmental Protection Agency				
Passed through programs from:				
SE Coastal Ocean Observing Regional Assn				
Exposure to Mercury through Subsistence Fishing: Assessment and Community Outreach in Lower Gills Creek, SC	66.RD	00D35515	-	235
Total US Environmental Protection Agency			-	235
US Nuclear Regulatory Commission				
University of South Carolina Excellence in Nuclear Engineering Fellowship Program	77.008	NRC-HQ-84-15-G-0022	-	66,484
Total US Nuclear Regulatory Commission			-	66,484
US Department of Energy				
CDK8/19 inhibitor for the treatment of HER2+ breast cancer	81.RD	11110FA95	-	40,218
Near Real Time Assessment of Emergent Complex Systems of Confederates	81.RD	1141302-385716	-	53,081
Targeting CDK8 for the Treatment of Vein Graft Failure	81.RD	18020FB63	-	102,244
COG NCORP Research Base	81.RD	18140FA25	-	3,421
Separate Effects Tests and Modeling of Fuel Fracture and Cladding Rupture	81.RD	200658-343	-	105,143
Predictive Condition-Based Maintenance for High-Powered Phased Array Radar Systems	81.RD	2201-3	-	30,794
FLEX-2 Augmentation Investigation	81.RD	80NSSC17M0077	-	73,194
Management of Nuclear Nonproliferation International Safeguards Graduate Fellowship Program	81.RD	B139029	-	456,592
Explore Innovative Chemistry of Natural Gas Conversion to DME (Dimethyl Ether)	81.RD	CEB000007	-	34,747
A Novel Intermediate-Temperature Bifunctional Ceramic Fuel Cell Energy System	81.RD	DE-AR0000492	121,781	182,959
A Novel Hollow Fiber Membrane Reactor for High Purity H2 Generation from Thermal Catalytic NH3 Decomposition	81.RD	DE-AR0000809	38,579	79,048
South Carolina Institute of Archaeology and Anthropology Cooperative Agreement: DE-EM0002875 Savannah River Archaeological Research Program	81.RD	DE-EM0002875	-	855,895
USC Aiken's Workforce Opportunities in Regional Careers (WORC)	81.RD	DE-EM0004214	-	143,595
University-Industry Partnership to Develop Reliable, Robust, and Active SOFC Cells and Stacks	81.RD	DE-FE0023475	-	38,315
Intermediate Temperature Nano-Structured Ceramic Hollow Fiber Membranes for Oxygen Separation	81.RD	DE-FE0024059	-	77,063
Developing Accelerated Test Protocols and Tuning Microstructures of the Common Materials to Improve Robustness, Reliability, and Endurance of SOFC Cells	81.RD	DE-FE0026097	12,863	76,829
Development of Lost Cost, Robust and Durable Cathode Materials to Support SOFC Commercialization	81.RD	DE-FE0031176	-	84,892
Transport Behavior of Superconductors at High Dissipative Currents	81.RD	DE-FG02-99ER45763	-	92,238
U3Si2 Fabrication and Testing for Implementation into the BISON Fuel Performance Code	81.RD	DE-NE-0000725	-	9,095
Structural Health Monitoring of Nuclear Spent Fuel Storage Facilities	81.RD	DE-NE0000726	-	26,121
Experimental Determination and Modeling of Used Fuel Drying by Vacuum and Gas Circulation for Dry Cask Storage	81.RD	DE-NE00008273	198,128	970,797
Demand-Driven Cyclic Archetypes	81.RD	DE-NE00008567	134,502	279,536
Phase Equilibria and Thermochemistry of Advanced Fuels: Modeling Burnup Behavior	81.RD	DE-NE00008570	-	173,924
Multipurpose, Radiation- and Temperature-Resistant Semiconductor Radiation Detectors for Advanced Process Monitoring and Nuclear Safeguards	81.RD	DE-NE00008662	6,247	79,558
Novel NDE Sensors, Waveforms, Models, and Algorithms for Cable Health Monitoring	81.RD	DE-NE00008663	-	76,582
Neutrino and Flavor Physics at the Intensity Frontier (Neutrino Task)	81.RD	DE-SC0010073	-	456,666
Hadronic Parity Violation in Few-nucleon Systems	81.RD	DE-SC0010300	-	124,932
Research in Neutrinoless Double-Beta Decay	81.RD	DESC0012612	-	161,800
Grid Generation, Coupling Strategies, and Spatially-dependent Time Stepping for Ocean Tidal/Estuary Systems and other ESM Components	81.RD	DE-SC0016540	-	240,347
Center for Hierarchical Waste Form Materials (CHWM)	81.RD	DESC0016574	503,594	1,361,155
Search for Neutrinoless Double Beta Decay	81.RD	DE-SC0018060	-	15,981
Using Crystallization to Control Filler Dispersion and Vice Versa in Polymer Nanocomposites	81.RD	DE-SC0018135	-	64,164
Nuclear Energy Advisory Committee (NEAC)	81.RD	DOE001	-	95,409
Novel Surface-Functionalized Powders for Solid Oxide Fuel Cells	81.RD	DOE-SC0013116	-	14,579
AOI 2: Modularization of Ceramic Hollow Fiber Membrane Technology for Air Separation	81.RD	ED-FE0031473	-	153,431
FrontierSN2 : Second Year of Frontier Field Supernova Search	81.RD	HST-GO-13386.021-A	-	899
Damped Lyman-alpha Systems in the Disks of Low-z SDSS Galaxies on Top of QSOs	81.RD	HST-GO-14137.004-A	-	970
South Carolina Collaborative Alliance for Stroke Trials- (SC-CoAST)- USC Subaward	81.RD	MUSC13-069	-	25,857
Congaree National Park Historic Resource Survey	81.RD	P13AC00443	7,500	42,645
Power Energy Efficiency & Impacts Framework Project: Mapping a comprehensive regional energy strategy for Upper Coastal Plain				
Council of Governments	81.RD	PEEIF486-06	-	3,304
A Novel Hollow Fiber Membrane Reactor for High Purity H2 Generation from Thermal Catalytic NH3 Decomposition	81.RD	RISK	-	66,632
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.RD	RISK	-	5,776

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University of South Carolina
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
US Department of Energy, continued				
Neutrino and Flavor Physics at the Intensity Frontier (Neutrino Task)	81.RD	RISK	-	19,833
R11 Track-2 FEC: Bridging Cognitive Science and Neuroscience Using Innovative Imaging Technologies	81.RD	RISK	-	37,045
Room Temperature Electrochemical Upgrading of Methane to Oxygenate Fuels	81.RD	RISK	-	124,240
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	-	169,796
Energy Efficient Membrane-based Hybrid Hybrid Process for Post-combustion CO2 Capture	81.RD	S581/GTI Project #21881	-	30,364
CBCAP-Parenting Program 2016	81.RD	S-CBCAP-2016-2	-	(55)
Developing an Evaluation Model for Physical Activity Communities of Practice (CoP) - Sub-contract with McKing Consulting	81.RD	USC-05-4574	-	10,852
Earthquake Monitoring in South Carolina	81.RD	B139035 TO# 318418	-	216,272
Science and Technology Enrichment Program (STEP)	81.RD	0000360508	-	18,028
Passed through programs from:				
American Institute of Chemical Engineers				
Synergistic Membranes & Reactants for a Transformational Flow-Battery System	81.RD	1231120	-	175,063
Clemson University				
Radionuclide Waste Disposal: Development of Multi-scale Experimental and Modeling Capabilities	81.RD	1750-219-2020199	-	43,192
Emery University				
Development and Verification of WAAM	81.RD	G-SOW-01866	-	94,755
Response to Statement of Work for Bioprocess Intensification	81.RD	G-SOW-A-01850	-	38,847
Gas Technology Institute				
Producing > 95% Purity O2 from Air Using Single-stage Membrane Contactor with Oxygen Carry Based Solution	81.RD	S520	-	38
Intelligent Automation, Inc.				
Characterization of SiC Cladding	81.RD	4500058589	-	(12,817)
Jefferson Science Associates, LLC				
Metal Hydride Material Development for High Efficiency and Low Cost Hydrogen Compressors	81.RD	15510FC94	-	30,532
National Writing Project				
Fundamental Neutron Physics: Theory and Analysis	81.RD	DE-SC0015882	-	62,000
North Carolina State University				
Performance and Reliability Advancements in a Durable Low Temperature Tubular SOFC	81.RD	ATRXUSC101016	-	187,057
Savannah River Laboratory				
Explore Innovative Chemistry of Natural Gas Conversion to DME (Dimethyl Ether)	81.RD	CEB00007	-	10,967
South Carolina Research Foundation				
Theoretical Investigation of Heterogeneous Catalysis at the Solid Liquid Interface for the Conversion of Lignocellulosic Biomass				
Model Molecules	81.049	DE-SC0007167	-	60,712
An Experimental and Modeling Study of NOx-CO Formation in High Hydrogen Content (HHC) Fuel Combustion in Gas Turbine Applications	81.RD	DE-FE0012005	-	(1,573)
Area of Interest B2: Bench-Scale Development and Testing of Rapid PSA for CO2 Capture	81.RD	4802004289	-	(296,824)
South Carolina Sea Grant Consortium				
Explore Innovative Chemistry of Natural Gas Conversion to DME (Dimethyl Ether)	81.RD	CEB00007	-	(11)
Multimodal Nondestructive Dry Cask Basket Structure and Spent Fuel Evaluation	81.RD	16-10-022	-	163,207
South Carolina Universities Research and Education Foundation				
Nuclear Forensics Junior Faculty Award Program	81.121	NF13004	134,982	179,604
Polymers for Pu Anion Exchange Microchannel Array	81.RD	B139014	-	7,655
Rickover Fellowship Program in Nuclear Engineering	81.RD	NRLF003	-	842,326
South Carolina Department of Health and Environmental Control				
National Nonproliferation Field Data Center	81.RD	7335746	-	68,582
The Pennsylvania State University				
Multisensory Robotic System for Used Nuclear Fuel Dry Storage Casks	81.RD	5107-USC-USDOE-8266	-	(6,490)
The Regents of the University of California				
Developing a 2016 U.S. Report Card on Walking and Walkable Communities	81.RD	USC-03-4568	-	(814)
University of Central Florida				
GEARED - FEEDER: Foundations for Engineering Education for Distributed Energy Resources	81.RD	DE-EE0006340	-	86,923
University of Pennsylvania				
Cost-effective Manufacturing and Morphological Stabilization of Nanostructured Cathodes for Commercial SOFCs	81.RD	565289	-	10,538
UT-Battelle, LLC				
Database Development and Modeling of Fuel-Fission Products in High Burnup Systems	81.RD	4000137480	-	45,060
Total US Department of Energy			<u>1,158,176</u>	<u>9,395,332</u>
US Department of Education				
Nepheline Thermodynamic Model Creation and Validation	84.RD	301919	-	48,569
Project POSTS: Preparation of Secondary Transition Specialists	84.325	H325K110505	-	15,137
STEM Forward: Building High Impact Talent	84.366	H63010008214	-	(15,969)
Application For Grants Under The Centers For International Business Program	84.RD	P220A140021-14A	-	276,248
Subcontract to Building Regional Resilience to Water-Related Hazards in the Charleston, SC Region: A Charleston Resilience Network Initiative	84.RD	R/CRN-1a	-	1,338
Developing an online tutor for accelerating high school vocabulary learning	84.RD	R305A130467	7,964	120,155
A Psychometric Investigation of Universal Screening for Social-Emotional Development in Preschool Using Parent and Teacher Informants	84.RD	R305A150152	72,846	298,971
Morphological Awareness Test for Reading and Spelling (MATRS)	84.RD	R305A170065	39,938	323,742
Passed through programs from:				
FHI 360				
Civil Rights Champions Colloquium	84.RD	16-1683-3	-	1,000
SC Department of Education				
USC Junior Science and Humanities Symposium for South Carolina	84.RD	NONE	-	564

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Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
US Department of Education, continued				
Passed through programs from:				
South Carolina Commission on Higher Education				
Geospatial Technology for Geography, Mathematics, and Science	84.RD	13540FJ04	-	(1,614)
Life Science Connections	84.RD	15250FL56	-	437
University of Oregon				
Advancing School Mental Health and PBIS Together (Subcontract)	84.326	224440L	-	92,468
Total US Department of Education			<u>120,748</u>	<u>1,161,046</u>
National Archives and Record Administration				
Papers of the Revolutionary Era Pinckney Statesmen, Phase 3	89.RD	PE-100098-17	-	67,903
Pinckney Revolutionary ERA Statesmen Phase 2: NHPRC Supplemental Application	89.RD	PE-50040-16	-	18,721
Total National Archives and Record Administration			<u>-</u>	<u>86,624</u>
US Department of Health and Human Services				
Polo-box PLK1 inhibitors target tumors resistant to ATP competitive compounds	93.RD	24232	-	89,281
Collaborative Research: RUI: The Influence of Mangrove Invasion and Rising Temperatures on Belowground Processes in Coastal Ecosystems	93.RD	525874	-	2,508
Collaborative Research: GEOTRACES Arctic Section: Radium and Thorium Isotopes as Natural Geochemical Tracers in the Arctic Ocean	93.RD	1458424	-	34,942
Collaborative research: Does Dissolved Organic Matter Influence the Concentrations and Distributions of Trace Elements in the Arctic Ocean?	93.RD	1504137	-	103,830
Collaborative Research: Fate and Control of Naturally Occurring Radioactive Material (NORM) Produced by Unconventional Gas Industry	93.RD	1509086	-	11,673
DMREF: Collaborative Research: Design and Discovery of Multimetallic Heterogeneous Catalysts for a Future Biorefining Industry	93.RD	1534260	-	99,676
Collaborative Research: Affordable and Energy Efficient Engineered Earth Masonry for Seismic Resistant Low-Rise Buildings	93.RD	1537776	-	48,051
Wikitheoria.com: A Knowledge Aggregator for the Social Sciences	93.RD	1551458	-	137,588
Molecular Dynamics with Nuclear Quantum Effects: Bridging Classical and Quantum Regimes	93.RD	1565985	-	115,974
CAREER: Revealing the Mechanisms that Determine How an Active DNA Transposable Element Impacts the Genome	93.RD	1651666	-	90,648
LTREB: Long Term Studies of Salt Marsh Primary Production	93.RD	1654853	-	120,151
Promoting Physical Activity in Young Adult Cancer Survivors using mHealth and Adaptive Tailored Feedback Strategies	93.RD	5107125	-	17,244
Research and Development for a Next Generation Ge-76 Double Beta-Decay Experiment	93.RD	5108337	-	25,466
Subcontract: Relative Caregivers in SNAP and Child-Only TANF Cases: Evidence from South Carolina Administrative Data	93.RD	20150033	-	12,227
Provision and Training and Certification for Self-Directed Attendant Care for ID/DD and HASCI Waiver Participants	93.RD	20183043	-	153,209
Elucidating Spatial and Temporal Variability in the Export and Attenuation of Ocean Primary Production using Thorium-234	93.RD	23175500	-	33,465
The Impact of Tobacco Control Policies on Health Equity in the United States	93.RD	3004806996	-	21,032
Joint Program in the Evaluation and Characterization of Three-Way Catalysts (TWC) for Passive SCR (Selective Catalytic Reduction)	93.RD	4000137938	-	3,374
Framework for a Molten Salt Reactor Thermochemical Database, Formalisms, and Tabulated Systems of Interest	93.RD	4000160938	-	15,933
National Youth in Transition	93.RD	4400010906	-	(165)
DSS SNAP - ED Evaluation	93.RD	4400017539	-	400,628
Improving Accuracy and Reliability in Cancer Screening Tests	93.RD	4500002637	-	23,444
GMAp Subcontract with University of Kentucky	93.RD	321000037417060	-	2,504
Coordinating Center for Research and Training to Promote the Health of People with Developmental and Other Disabilities	93.RD	001007DD14	1,507,789	1,692,367
South Carolina University Center for Excellence in Developmental Disabilities	93.RD	00DDUC0003-01-00	-	538,525
Neural Mechanisms of Vocal Communication in the Human Brain	93.RD	1001620374/W000828030	-	26,743
Conformal Multi-functional Structural Antenna	93.RD	108959583J	-	51,724
Chronic Care Management Model Translation to Multimorbid Aging Adults at FQHCs	93.RD	118083 G003778	-	13,377
Memory Consolidation During Waking Rest (revision)	93.RD	13-0358	-	3,024
SBIR Phase 2: Reducing Size and Cost of Optical Devices with Nanomanufacturing - A Novel Use of Disk Drive Technology	93.RD	13070FB50	-	66,782
University of Central Florida Subaward: Project HARMONY	93.RD	14276042-01	-	129,455
Enhancing Middle Grades Science Teachers' Knowledge of Plant Processes, Structures, and Functions Through Engagement in Plant Sciences Research.	93.RD	15250FJ56	-	66,134
Phase II SBIR with Reify	93.RD	15540FD56	-	34,055
SCAMP Phase III: Enhancing Opportunities to Transition Students into Successful STEM Pathways	93.RD	15581051 - SCAMP	-	446
Usability of Self-Directed Online Training Intervention for Chinese Dementia Caregivers	93.RD	15590FB18	-	10,190
Long Island Head Start Program and University of South Carolina Center for Child and Family Studies	93.RD	15900FJ85	-	840
Colorectal Cancer Screening Program in South Carolina	93.RD	15DP006137	117,175	167,133
STEP/FEEDER: Strategic Expansion to Achieve GEARED Goals	93.RD	16226104-08	-	13,483
2017 Carolina Eclipse Initiative	93.RD	17110FL52	-	210
Sankofa Saturday Academy	93.RD	17-1734-1	-	1,500
SCAMP Phase III: Enhancing Opportunities to Transition Students into Successful STEM Pathways	93.RD	17-581054-SCAMP	-	73,793
Integration of NMR Interpretation Tool in Surrogate Formulation and High Pressure Laminar Flow Reactor for Species Diagnostics in Jet Fuel Combustion	93.RD	17-7900-0006-03-C2	-	250,351
Evaluation of the Network Development Grant, Upper Midlands Rural Health Network	93.RD	18130FA33	-	19,985
A Comparison of Two Reading Interventions and Initial Evaluation of a Caregiver-Delivered Reading Intervention with ELL Students	93.RD	183405335	-	21,689
Subcontract for Clemson NSF Proposal: Novel Graphene-based Label-free Biosensor Arrays for Smart Health and Drug Discovery	93.RD	1860-206-2011320	-	46,279
Radioluminescent Particles for Optical Mission in Optogenetics	93.RD	1876-206-2011576;	-	116,683
Integrated Feature Detection and Tracking from Microscope Images of Composite Materials	93.RD	18-57415-12-C1	-	22,088
Traineeships for Nurse Anesthesia 2015	93.RD	1A22HP30940-01-00	-	25,741
Enhancing the Efficacy of 5 Fluorouracil using Emodin as a Complementary Therapeutic	93.RD	1F31AT009820-01	-	10,885
KCNQ Channels of the Urinary Bladder: A Functional Role and Therapeutic Potential	93.RD	1F31DK104528-01	-	4,803
Elucidating Roles for the Heparan Sulfate and Chondroitin Sulfate Glycosaminoglycan Chains on Betaglycan in Wnt Signaling	93.RD	1F31GM122379-01	-	15,234
An Evidence-Based Evaluation Tool to Assist Health Care Providers in Their Assessment of Effective mHealth Applications of the Management of Chronic Health Conditions	93.RD	1F31LM012402-01A1	-	19,938
Identifying Predictors of Racial Disparity in Treatment and Mortality among Patients Diagnosed with Breast Cancer in South Carolina	93.RD	1F99CA222722-01	-	30,809
and Geospatial Investigation of Breast Cancer Patient Navigation	93.RD	1H23IP000851-01	-	(3,052)
Economic Studies of Vaccines and Immunization Policies, Programs, and Practices for Adults	93.RD			

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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
US Department of Health and Human Services, continued				
Addiction Treatment in Medicaid Health Homes	93.RD	1K01DA041628-01	-	152,234
Sensorimotor Processing of Auditory Feedback in Aphasia	93.RD	1K01DC015831-01A1	-	132,513
A Patient-Centered Asthma Management Communication Intervention for Rural Latino Children	93.RD	1K23HL133596-01A1	-	84,675
The Effects of Ojeok-San on Neuro-Immune Interactions in Cancer-Induced Visceral Pain	93.RD	1K99AT009206-01A1	-	89,159
Rural Interprofessional Behavioral Health Scholars (RIBHS) Program.	93.RD	1M01HP31378-01-00	-	368,785
Colorectal Cancer Screening Program in South Carolina	93.RD	1NU58DP006137-01-00	-	(7,397)
Center For Targeted Therapeutics - Admin Core (Year 2)	93.RD	1P20GM109091-01	-	(12,849)
Brain Targeted Nanoparticle for Alzheimers Disease Therapy	93.RD	1R01AG054839-01A1	-	254,597
Metallopolymer and Antibiotic Bioconjugates against Multidrug Resistant Bacteria	93.RD	1R01AI120987-01	-	308,592
AhR Ligands in Epigenetic Dysregulation of T Cells	93.RD	1R01AI123947-01A1	-	287,086
Big Data Analytics of HIV Treatment Gaps in South Carolina: Identification and Prediction	93.RD	1R01AI127203-01A1	-	129,115
Epigenetic Mechanisms of T Cell Dysregulation in PTSD	93.RD	1R01AI129788-01	82,367	449,170
Peers Promoting Exercise Adoption and Maintenance among Cancer Survivors	93.RD	1R01CA183849-01A1	53,644	634,096
Modulation of Host Intrinsic Immunity to Reduce Prostate Cancer Disparity	93.RD	1R01CA204786-01	16,083	102,678
Targeting the p62 Signalingosome in Leukemia.	93.RD	1R01CA218076-01	-	329,765
Emodin as a Chemopreventive Agent for Breast Cancer	93.RD	1R01CA218578-01A1	-	52,311
Neural Microcircuit Selection by Astrocyte Signaling Following Cocaine Exposure	93.RD	1R01DA041513-01A1	-	299,391
Maximizing Speech Recognition Under Adverse Listening Conditions	93.RD	1R01DC015465-01	128,048	302,789
Promoting Healthy Weight in Pregnancy and Postpartum among Overweight/Obese Women	93.RD	1R01HD078407-01A1	-	499,971
Turn Up the HEAT - Healthy Eating and Activity Time in Summer Day Camps	93.RD	1R01HD079372	45,111	678,590
Policy to Practice: Statewide Rollout of YMCA Childhood Obesity Standards	93.RD	1R01HD079422-01	93,937	384,551
Physical Activity, Sedentary Behavior and Weight Status in Early Childhood	93.RD	1R01HD091483-01A1	11,316	127,950
DIDACTIC: Dissemination and Implementation of a Diet and Activity Community Trial In Churches	93.RD	1R01HL122285-01	77,005	369,694
Therapeutic Targeting of Tissue Inhibitor-4 in Hypertrophy and Failure	93.RD	1R01HL130972-01A1	37,602	477,965
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.RD	1R01HL135220-01A1	-	455,722
Validating Triage for Chemical Mass Casualty Incidents - A First Step	93.RD	1R01LM011648-01A1	44,875	424,527
Compartmentalization of Cyclic Nucleotide Signaling in the Ventral Hippocampus	93.RD	1R01MH101130-01A1	-	334,601
Muscarinic Modulation of the Basolateral Amygdala	93.RD	1R01MH104638-01A1	-	478,495
Progression of Attentional and Executive Function Deficits in HAND	93.RD	1R01MH106392-01A1	-	436,509
An in Vivo Voltammetric Serotonin Biomarker for Antidepressant Efficacy	93.RD	1R01MH106563-01A1	82,051	316,012
Emergence, Stability and Predictors of Anxiety in Fragile X Syndrome	93.RD	1R01MH107573-01A1	18,867	587,542
HIV-Related Stigma and HIV Clinical Outcomes	93.RD	1R01MH112376-01	-	177,073
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.RD	1R01NR017619-01	-	4,142
Antagonistic Roles of HuD and KSRP for mRNA stability in Neuronal Growth	93.RD	1R01NS089633-01A1	149,683	380,398
Neurobiological Mechanisms of Apathy in HAND	93.RD	1R01NS100624-01A1	-	94,475
Î² cell dysfunction during aging: Studies on the role of p21 in the regulation of the Unfolded Protein Response	93.RD	1R03AG051976-01A1	-	87,741
TRB3: A Novel Mediator for Denervation-induced Muscle Atrophy	93.RD	1R03AR066825-01A1	-	32,932
Novel Chemical Biology Probes based on Selective Inhibitors of the Polo-Box Domain of PLK1	93.RD	1R03CA212889-01A1	-	52,556
Functional Identification of New Mechanisms of Neurotoxicity Induced by HIV and Drugs of Abuse	93.RD	1R03DA043428-01A1	-	141,036
Early Language and Literacy Acquisition in Children with Hearing Loss	93.RD	1R03DC014535-01	-	126,926
Modeling and Estimation of Nonlinear Quantile Effects in Child Health Research	93.RD	1R03HD084807-01A1	-	47,211
Targeted Engagement of the Premotor-Prefrontal Motor Circuit after Stroke	93.RD	1R03HD087481-01	-	67,183
The Neurodevelopmental MRI Database	93.RD	1R03HD091464-01	-	46,365
Regulation of Kainate-Type Glutamate Receptors by Auxiliary Subunits	93.RD	1R03NS088858-01A1	-	81,564
Validating Neuroelectric Biomarkers of Concussion Recovery	93.RD	1R03NS106547-01	-	15,210
A Geospatial Investigation of Breast Cancer Treatment	93.RD	1R15CA179355-01A1	-	19,033
RAD51-dependent homologous recombination and thiopurine treatments for cancer	93.RD	1R15CA223956-01A1	-	13,051
Ubiquitin-mediated Regulation of the RAD51D Homologous Recombination Protein	93.RD	1R15GM110615-01	-	82,108
Community-Generated Palliative Care Telemedicine for Rural Black and White Elders	93.RD	1R21AG046772-01A1	-	1,108
Mechanisms of the Effect of HIV Disclosure on Clinical Outcomes: A Longitudinal Study	93.RD	1R21AI122919-01A1	32,430	94,382
Racial Disparity of MIC-1 Gene in Prostate Tumor Biology	93.RD	1R21CA179733-01A1	-	37,945
Increasing dietary self-monitoring and weight loss in an mHealth intervention	93.RD	1R21CA187929-01A1	-	49,363
Inhibitors of B-Raf Through the Dimerization Interface	93.RD	1R21CA191899-01A01	19,067	130,944
Linking Macrophages to Gut Microbiota in Obesity Enhanced Colon Cancer	93.RD	1R21CA191966-01A1	17,462	163,302
Impact of Macrophage PCSK9 on Breast Cancer	93.RD	1R21CA216230-01	-	124,590
Knock-in Mouse Model of Dopamine Transporter-Tat Interaction Underlying NeuroAIDS	93.RD	1R21DA041932-01	43,659	140,004
Speech Entrainment Treatment for Broca's Aphasia	93.RD	1R21DC014170-01A1	-	28,925
A Novel Approach for Transforming Decellularized Vessel Grafts into Small-Diameter Arteries	93.RD	1R21EB022131-01A1	-	241,740
Social Mechanisms for Promoting Youth Physical Activity in Afterschool Programs	93.RD	1R21HD077357-01A1	-	16,146
Neurodevelopmental Outcomes Associated with Care Setting in Children Orphaned by AIDS	93.RD	1R21HD087108-01A1	68,931	214,091
Interventions to Promote Healthy Lifestyle and Academic Performance in Children during the Summer Months	93.RD	1R21HD090647-01A1	8,154	56,249
Sexual Orientation and the Risk for Unintended Pregnancy Among U.S. Women of Reproductive Age	93.RD	1R40MC28314-01-00	-	(2,788)
Advanced Nursing Education Work Force (ANEW) HRSA-17-067	93.RD	1T9HP30919-01-00	-	403,040
Expanding the Reach of Effective Teen Pregnancy Prevention Programs in High Need South Carolina Communities (Tier 1B) (OAH1B)	93.RD	1TP1AH000126-01-00	-	12,826
Expanding the Reach of Effective Teen Pregnancy Prevention Programs in High Need South Carolina Communities (Tier 1B) (OAH1B)	93.RD	1TP1AH000133-01-00	-	1,587
Coordinating Center for Research to Promote the Health of Children with Birth Defects and People with Developmental and Other Disabilities	93.RD	1U19DD001218-01	61,021	230,631
Rural Health Research Center Cooperative Agreement 2014-2015	93.RD	1UCRH305390102	-	56,228
Integrative Functions of the Planum Temporale	93.RD	2015-3293-	-	141,583

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Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
US Department of Health and Human Services, continued				
R11 Track-2 FEC: Center for a Sustainable Water, Energy, and Food Nexus (SusWEF)	93.RD	2016-2017-003	-	488,413
Targeted Infusion Project: Infusion of Active and Problem-Based Learning for Teaching and Research in the Context of Transportation Disruptive Technologies	93.RD	20-88854	-	9,728
USC contribution to IAI SBIR proposal to NASA 2017	93.RD	2293-1	-	20,000
Participation of Susan Lang on Expedition 357 (offshore)	93.RD	23(GG009393-01)	-	3,935
Group Testing for Infectious Disease Detection: Multiplex Assays and Back-end Screening	93.RD	24-0548-0008-004	-	53,665
Targeted Infusion Project: Building an Interdisciplinary Geosciences and Geospatial Intelligence Curricula Through Applied Training in Mapping and Spatial Reasoning	93.RD	24400FA30	-	31,904
Development and Validation of a Retrospective STEM Interest Instrument for Youth: Partnering with Click2SciencePD	93.RD	25-1714-0141-002	-	24,788
CAM Center for Epigenetic Regulation of Inflammation (Admin. Core)	93.213	2P01AT003961-06A1	-	1,555,465
Cachexia in ApcMin/+ mice: The role of IL-6	93.213	2R01CA121249-05A1	-	221,705
HIV/Cocaine Neurotoxicity in Females	93.RD	2R01DA013137-16	161,796	691,246
The Development of Sustained Attention in Infants	93.RD	2R01HD018942-31	-	472,368
Modifying Intrinsic Growth Capacity through Axonal mRNA Translation	93.RD	2R01NS041596-10A1	-	316,150
mHealth for ART adherence by HIV+ African Americans age 45 & older	93.RD	2R44MD007161-03	-	39,254
GMaP Subcontract with University of Kentucky	93.RD	3210000374-17-060	-	8,521
GMaP - Exploring Sociocultural Influences on Cervical Cancer Prevention and Control Behaviors in Cusco, Peru	93.RD	3210000374-18-271	-	4,791
Capacity Building Center for the Courts	93.RD	36417-SVU-1	-	4,827
Promoting Healthy Weight in Pregnancy and Postpartum among Overweight/Obese Women	93.RD	3R01HD078407-03S1	-	54,625
Therapeutic Targeting of Tissue Inhibitor-4 in Hypertrophy and Failure	93.RD	3R01HL130972-01A1S1	-	42,425
Examining the Role of the Lissencephaly Protein, Lis1, in Dynein-based Transport	93.RD	3R01NS056314-10S1	-	35,318
Interventions to Promote Healthy Lifestyle and Academic Performance in Children during the Summer Months	93.RD	3R21HD090647-01A1S1	-	3,351
Pharmacogenomic Analysis of Nicotine Dependence	93.RD	4R00DA032681-02	-	(778)
Roles of the Mammalian CST Complex in DNA Replication and Chromosome Cohesion	93.RD	4R00GM104409-02	-	88,606
Functions of Heparan Sulfate Proteoglycans in Axon Guidance and Degeneration.	93.RD	4R00NS083714-03	-	208,658
Beyond the Cultural Horizon: Mapping Relational Norms Within Social Networks	93.RD	504082-78050	-	92,580
Carolina Eclipse Initiative: DREAM2EXPLORE Workshop	93.RD	521179-EC-USCU	-	1,080
Remote Geochemical Analysis under Venus Atmospheric Pressure using Raman and Laser-Induced Breakdown Spectroscopy (LIBS)	93.RD	521179-RP-USCAngel	-	4,279
High Throughput Combinatorial Screening of Metal Nitrides, Metal Oxynitrides, and Metal Oxyulfides for Solar Fuel Conversions	93.RD	521179-RP-USCMeekins	-	10,000
Rare and Peculiar Stellar Explosions with the Next Generation of Space Telescopes	93.RD	521192-USCRodney	-	24,080
Non-conventional Lightweight Composite Materials and Structures for Aerospace and Space Applications	93.RD	5211932	-	23,921
Satellite Observations of Marsh Dieback Events and Potential Environmental Influences along Coastal SC, 2000-2017	93.RD	521192	-	24,145
Investigating the Role of the Southern Ocean on Global Climate Change using Satellite Observations and Model Simulations.	93.RD	521193-BF	-	6,639
The Chemical Evolution of Galaxies and the Relevant Atomic Physics (Frances Cashman)	93.RD	521193-FC	-	12,000
SEARCH Nutrition Ancillary Study 2 (SNAS2)	93.RD	5-34496	-	38,910
Molecular Characterization of Regulatory Factors Involved in Aspergillus flavus Development, Secondary Metabolism and Survival	93.RD	58-6054-5-031	-	8,498
Succination Promotes ER Stress & CHOP Stability; Novel Role for CHOP in the Metabolic Function of Adipocytes in Diabetes	93.RD	5F31DK108559-02	-	1,948
MicroRNA Regulation of EAE by Resveratrol	93.RD	5F32AT008539-03	-	9,168
Colorectal Cancer Screening Program in South Carolina	93.RD	5NU58DP006137-03-00	215,470	627,681
South Carolina IDEa Network of Biomedical Research Excellence (INBRE) Admin Core - Year One of Competing Renewal	93.RD	5P20GM103499-17	3,086	603,030
Center For Targeted Therapeutics - Admin Core (Year 2)	93.RD	5P20GM109091-02	-	1,023
Center For Targeted Therapeutics - Admin Core (Year 2)	93.RD	5P20GM109091-04	137,710	1,883,165
Center For Targeted Therapeutics - Admin Core (Year 2)	93.RD	5P20GM109091-05	-	302,785
Center For Colon Cancer Research - Administrative Core	93.RD	5P30GM103336-03	-	(17)
Center FPR Colon Cancer Research	93.RD	5P30GM103336-03	-	1,593
Center For Colon Cancer Research - Administrative Core	93.RD	5P30GM103336-05	-	765,209
Center for the Study of Aphasia Recovery (C-STAR)	93.RD	5P50DC014664-02	849,686	1,877,695
Center for the Study of Aphasia Recovery (C-STAR)	93.RD	5P50DC014664-03	-	261,032
Addressing Acquiescence: Reducing Survey Error To Promote Latino Health	93.RD	5R01CA172283-05	209,276	320,285
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.RD	5R01HL135220-02	-	40,959
Biomedical-Behavioral Interface: Prevention and Developmental Sciences Training	93.RD	5T32GM081740-10	-	270,829
Coordinating Center for Research and Training to Promote the Health of People with Developmental and Other Disabilities	93.RD	5U01DD001007-05	17,246	150,286
Rural Health Research Center Cooperative Agreement 2014-2015	93.RD	5U1CRH30539-02-00	-	208,910
Health Promotion and Disease Prevention Research Centers; Faith, Activity, and Nutrition: Dissemination in Underserved Communities(CENTER CORE)	93.RD	5U48DP005000-03	16,625	352,671
Health Promotion and Disease Prevention Research Centers; Faith, Activity, and Nutrition: Dissemination in Underserved Communities(CENTER CORE)	93.RD	5U48DP005000-03S7	-	62,472
Health Promotion and Disease Prevention Research Centers; Faith, Activity, and Nutrition: Dissemination in Underserved Communities(CENTER CORE)	93.RD	5U48DP005000-04	10,177	679,957
Ex Vivo Female Reproductive Tract Integration In a 3D Microphysiologic System	93.RD	60037699 USOCO	-	7,565
The Study of Epigenetics and Infections in the TEDDY Study	93.RD	6163-1007-00-AV	-	40,976
Phase 1: Comprehensive Social Media Platform to Advance Soil Health in South Dakota	93.RD	68-6740-16-513	-	29,008
A Screen for Epigenetic Regulators of Hematopoiesis Reveals a Requirement for the Hbo1 Complex during Hematopoietic Stem Cell Specification	93.RD	7K01DK104974-03	-	198,796
Resilience-Based Psychosocial Intervention Among Children Affected by HIV/AIDS in China	93.RD	7R01NR013466-05	-	96,250
Trials and ReseArch Networks FOR More (TRANSFORM)-South Carolina	93.RD	8UG1OD024956-02	194,278	431,454
Child Care Accessibility Index: Leveraging SC Child Care Administrative Data to Inform State CCDBG Subsidy Policies	93.RD	90YE0176-01-00	15,689	36,469
Optimizing the WFIRST Type Supernova Survey	93.RD	A17-0899-P0632067	-	7,272
SC DHHS Palmetto Coordinated System of Care Evaluation	93.RD	A201812156A	-	29,738
SC Department of Health and Human Services and the Center for Child and Family Studies Medicaid Training for HHS Staff	93.RD	A201812936A	-	79,549
Team for Early Childhood Solutions Data Systems Management and Compliance Indicator Analysis	93.RD	A201812946A	-	225,778
SC Department of Health and Human Services Policy and Health Services Consultation Activities	93.RD	A202013005A	-	3,948,132

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US Department of Health and Human Services, continued				
Training and Certification for Attendant Care Services	93.RD	A202210675A	-	715,747
Development of a Graduate Course on Nuclear Safeguards with a Module on Proliferation Risk Assessment	93.RD	B139032	-	13,968
Infrared Spectroscopic Study of Glycolic Acid in Aqueous Solutions Relevant to Nuclear Waste Treatment	93.RD	B139034	-	14,450
TC1 2C19: High Energy Dynamic Impact	93.RD	C15-2A38-USC	-	106,496
TC1 2C18: Progressive Damage Analysis	93.RD	C16-2A38-USCAR	-	139,865
TC1 2C20: Rapid Tools	93.RD	C16-2A38-USCAR	-	31,523
TC3 2C26: Bonding Surface Treatment and Inspection	93.RD	C16-2A38-USCAR	-	28,375
Developing the Use of the Dietary Inflammatory Index among Children (C-DII)	93.RD	C-DII8152016	-	(6,870)
Healthy South Carolina Initiative: Community Transformation Plan	93.RD	CY-4-509	-	182,948
Evaluation and Training Services for SC DHEC's WISEWOMAN Program	93.RD	CY-6-309	-	(748)
SCale Down Initiative	93.RD	CY-7-728	-	92,332
Roadmap Development for RAPID. Intensified Process Fundamentals	93.RD	DE-EE0007888	-	130,633
Partnering to Create Document Based Questions with Digital Collections	93.RD	DH-50028-16	-	23,028
Analysis of Chemicals in Water	93.RD	EP-16-D-000132	-	64,948
Predictive Sensing of Aerospace Composite Structures	93.RD	FA9550-16-1-0401	-	73,451
Macrophage-Microbiota Interactions in Colon Cancer	93.RD	FCA225044A	-	6,898
RFID based Wireless System for Self-powered Implantable Pediatric Cardiac Sensors	93.RD	FP00004110_SA001	-	36,806
Preparing Professional Counselors to Provide Effective Services to At-Risk Children, Adolescents, Transitional-Age Youth, and Families	93.RD	G02HP30562	-	40,792
Singular Curves and Their Moduli Spaces	93.RD	H98230-15-1-0264	-	4,924
System of Systems Control Interactions	93.RD	hq017-17-c-7110	-	80,986
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 for Swimming	93.RD	IOOS.16(028)	-	94,473
Southeast Coastal Ocean Observing Regional Association (SECOORA): Supporting Resilient Ecosystems, Communities and Economies				
Operate and Maintain USC IOOS Priority High Frequency Radars in SECOORA	93.RD	IOOS.16(028)USC.OBS.1	22,129	99,983
JSA/Jefferson Lab Graduate Fellowship Award 2017/2018	93.RD	JEFFERSON LAB	-	12,000
Exploring how B cell Maturation Pathways Influence Microbiota Composition and Host Health	93.RD	KAI123481B	-	48,660
Regulation of Macrophages in Obesity-Enhanced Colon Cancer:Benefits of Quercetin	93.RD	KAT007824B	-	79,073
Improving Adherence to Adjuvant Hormonal Therapy among Disadvantaged Breast Cancer Survivors	93.RD	KCA193667A	-	115,524
Control of Cocaine Seeking by D1-dependent Modulation of NMDA Signaling	93.RD	KDA031747B	-	(385)
Behavioral Health Care in Army Warrior Transition Units	93.RD	KDA037412A	1,203	136,918
Examining mRNA Localization in Central Sensory Axons after Peripheral Nerve Injury	93.RD	KNS105879A	-	5,844
South Carolina Muscular Dystrophy Surveillance System	93.RD	MC-15-011	-	61,342
Addressing the Zika virus in Latino communities of SC	93.RD	MC-7-383	-	16,724
Crest 2	93.RD	MUSC14-050	-	(2,985)
South Carolina Cancer Health Equity Consortium (SC CHEC)	93.RD	MUSC15-076	-	20,422
Evaluating How Tobacco Control Policies are Shaping the Nicotine Delivery Market	93.RD	MUSC16-042-8B807	-	98,454
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.RD	MUSC16-099-8C322	-	34,535
Carolinas Integrated Sciences and Assessments	93.RD	NA110AR4310148	-	5,246
Development of a TSA Process for CO2 Removal Using a Structured 13X Adsorbent	93.RD	NNM12AA41C	-	(8,241)
Unmanned Aircraft Systems (UAS) Research: Beyond Line of Sight (BLOS) UAS Communications	93.RD	NNX16AK45G	-	123,282
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	93.RD	NNX17AJ94A	781,416	1,170,821
Compact Kinetic Mechanisms for Petroleum-Derived and Alternative Aviation Fuels	93.RD	NONE	-	108,046
Forward Thinking, Teaching and Learning (FTTL): Mathematics and Science Concepts in a Digital-based Society	93.RD	NONE	-	117,281
Gary Paul Nabhan Speaks on Conservation of Food Diversity	93.RD	NONE	-	275
IREX - 2 US Study Tours	93.RD	NONE	-	55,442
Modifying Intrinsic Growth Capacity through Axonal mRNA Translation	93.RD	NONE	-	83,994
NSTAR2017 (JSA Support)	93.RD	NONE	-	2,000
Pilot Award: Cross-validation of auction modalities to assess demand for emerging nicotine products	93.RD	NONE	-	2,610
Randomized Trial to Prevent Vascular Events in HIV ? REPRIEVE	93.RD	NONE	-	12,646
Subcontract from Brandeis University - South Carolina Opioid Safety Initiative in the Military (SCOSI-M)	93.RD	NONE	-	(4,244)
Testing a Multilayered and Arrayed Fiber Optic Sensor Suite (MAFOSS)	93.RD	NONE	-	21,754
Water Analysis and Reporting for Toxicological Research	93.RD	NONE	-	67,718
Concurrent Treatment of Substance Abuse and Child Maltreatment	93.RD	Pending	-	78,116
Families Improving Together (FIT) for Weight Loss	93.RD	Pending	20,073	445,217
Maternal HIV: Developmental Neurotoxicity	93.RD	Pending	-	38,927
Online vs Staff Delivery: Child & Family Outcomes, Cost Analysis and Satisfaction	93.RD	Pending	385,338	583,384
Center For Colon Cancer Research - Administrative Core	93.RD	PGM103336B	-	119,412
South Carolina IDeA Network of Biomedical Research Excellence (INBRE) Admin Core - Year One of Competing Renewal	93.RD	PGM103499F	-	33,743
COBRE - Center for Dietary Supplements and Inflammation (Admin Core Year 4)	93.RD	PGM103641B	-	(10,806)
COBRE - Center for Dietary Supplements and Inflammation (Admin Core Year 4)	93.RD	PGM103641C	-	94,601
Center For Targeted Therapeutics - Admin Core (Year 2)	93.RD	PGM109091A	-	(8,684)
GMaP Subcontract with University of Kentucky	93.RD	321000037417060	-	78,002
Direct Access to the Serpentine Subsurface: a Biogeochemical Investigation of Fluids to Characterize a Unique Habitat	93.RD	74533248	-	(1,823)
EESLR 2016 Dynamic sea level rise assessments of the ability of natural and nature-based features to mitigate surge and nuisance flooding	93.RD	PO-0000010922	-	30,787
South Carolina IDeA Network of Biomedical Research Excellence (INBRE) Admin Core - Year One of Competing Renewal	93.RD	PRR016461E	-	6,446
Subcontract to Building Regional Resilience to Water-Related Hazards in the Charleston, SC Region: A Charleston Resilience Network Initiative	93.RD	R/CRN-1a	-	10,311
Scale It Up: Effectiveness-Implementation Research to Enhance HIV-Related Self-Management among Adolescents and Young Adults -				
Analytic Core for U19 Application	93.RD	R01936	-	88,080
Strategies for Communicating the Environmental Risks of Cancer (SCERC)	93.RD	R03ES027406-01	-	66,849

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US Department of Health and Human Services, continued				
Characterization and Genetic Analysis of Aging in Daphnia	93.866	RAG037969B	-	(206)
South Carolina-Advancing Diversity in Aging Research Undergraduate Program	93.RD	RAG050484A	-	334,947
Hypocretin/orexin Modulation of Cognitive Correlates of Brain Aging	93.RD	RAG050518A	32,135	221,352
Metalloprotein and Antibiotic Bioconjugates against Multidrug Resistant Bacteria	93.RD	RAI120987A	-	66,630
Unraveling the Role of Asymmetric Division in Lineage Specification of Stem Cells	93.RD	RAR063338A	-	142,375
MicroRNAs in Atopic Dermatitis Pathogenesis: A Role for Mast Cell and Sphingosine-1-Phosphate?	93.RD	RAR067996A	-	93,343
Role of Natural Indoles in Experimental Autoimmune Encephalomyelitis	93.213	RAT006888B	-	611
Cachexia in ApcMin/+ mice: The role of IL-6	93.RD	RCA121249B	-	18,859
Stromal Modulation of Response to Thymidylate Synthase Inhibitors	93.395	RCA154731B	-	(5,323)
Southern Oncology Network on Adverse Reactions (SONAR) - Focus on Tyrosine Kinase Inhibitors (TKIs).	93.RD	RCA165609C	9,028	119,474
Building Evidence for Effective and Sustainable Cigarette Warning Label Policy	93.RD	RCA167067B	98,758	367,245
Building Evidence for Effective and Sustainable Cigarette Warning Label Policy	93.393	RCA167067C	-	(1,303)
Addressing Acquiescence: Reducing Survey Error To Promote Latino Health	93.RD	RCA172283A	-	(2,329)
HER2 and the Link between Inflammation and Cancer Stem Cells	93.RD	RCA178386A	-	(41,905)
Evaluating a Food Hub's Impact on Food Access, Diet and Weight in a Food Desert	93.RD	RCA180336B	-	286,817
Nano-cocktail Overcomes Multidrug-Resistance for Ovarian Cancer Therapy	93.RD	RCA188847A	-	110,550
Molecular Origin and Evolution of HPV Inactive Head and Neck Cancers	93.RD	RCA201853A	-	27,467
Reducing Colorectal Cancer Disparities: Racial Differences in Colorectal Polyp Profile	93.RD	RCA202477A	29,024	235,347
HIV/Cocaine Neurotoxicity in Females	93.RD	RDA013137E	-	283
Impact of HIV-1 Tat Protein on Cocaine-Dopamine Transporter Interaction	93.RD	RDA035714A	-	2,980
Impact of HIV-1 Tat Protein on Cocaine-Dopamine Transporter Interaction	93.RD	RDA035714B	83,212	209,195
Impact of HIV-1 Tat Protein on Cocaine-Dopamine Transporter Interaction	93.RD	RDA035714C	2,981	44,517
Dynamic Signaling of NRG3-ErbB4 in the Hippocampus Mediates Nicotine Withdrawal Phenotypes	93.RD	RDA044311A	-	12,442
Sensory-Motor Systems and Conceptual Processing in the Healthy and Impaired Brain	93.RD	RDC010783B	-	170,981
Protein Succination: a Mechanistic Mediator of Adipocyte Dysfunction in Diabetes	93.RD	RDK105087A	-	101,740
Role of TRP Channels in Human Detrusor Function and Dysfunction	93.RD	RDK106964A	-	60,028
Impact of Disparities in Food Security on Glycemic Control and Health Care Utilization Among Youth and Young Adults with Diabetes	93.RD	RDK117461A	-	37,481
Pilot Study of Gender-specific Differences in Failure Resistance and Material Fatigue of Human Carotid Atherosclerotic Plaques	93.RD	REB019663A	-	36,565
Methylmercury Exposure Through Rice Ingestion, Gut Microbes, and Offspring Development	93.RD	RESO26412A	9,660	19,926
South Carolina Post-Baccalaureate Research Program	93.RD	RGMO66526D	-	385,280
South Carolina Initiative for Minority Development	93.859	RGMO76277C	-	42,123
Reprocessing and Digitizing the William D. Workman, Jr. Papers Photographs	93.RD	RH-100123-17	-	10,632
The Development of Sustained Attention in Infants	93.RD	RHD018942I	-	26,671
Theory-based HIV Disclosure Intervention for Parents	93.RD	RHD074221B	32,083	675,167
Investigating the Role of Structured Days on Accelerated Weight Gain during Summer: A Natural Experiment	93.RD	RHD095164A	-	18,912
Physical Activity During the Transition from Elementary School to High School	93.847	RHL091002B	93,198	280,981
Intracellular Sorting of Connexin 43 by the Ubiquitin Ligase Wwp1	93.837	RHL104030B	-	3,275
Localized Targeting of Matrix Proteases Following Myocardial Infarction	93.837	RHL111090B	-	84
Physical Activity and Nutrition Intervention in Afterschool Programs	93.RD	RHL112787B	-	(4,716)
Sparstolonin B as an Anti-Atherogenic Agent	93.RD	RHL116626B	-	143,027
DIDACTIC: Dissemination and Implementation of a Diet and Activity Community Trial In Churches	93.RD	RHL122285A	-	41,144
Analysis of TGFβ Ligands Function in Heart Development and Disease	93.RD	RHL126705B	-	393,622
Estrogen Mediated Mechanisms of Stress Susceptibility	93.RD	RHM113892A	-	80,663
COBRE - Center for Dietary Supplements and Inflammation (Admin Core Year 4)	93.RD	RISK	-	33,782
MFES for High throughput Modular Process Intensified Gas Separation and Ion Exchange	93.RD	RISK	-	19,339
South Carolina IDEa Network of Biomedical Research Excellence (INBRE) Admin Core - Year One of Competing Renewal	93.RD	RISK	236	277,961
TC2 2C21: Rapid Inspection	93.RD	RISK	-	192,763
PeRiodontal treatment to Eliminate Minority InEquality and Rural disparities in Stroke (PREMIERS)	93.RD	RMD009738A	318,649	484,624
Emergence and Stability of Autism in Fragile X Syndrome	93.242	RMH090194B	45,283	731,938
Immunopathological Basis of PTSD	93.242	RMH094755B	-	(145)
Quality, Economic Outcomes and Sustainability of Telepsychiatry (QUEST) (Continuation Application RPPR attached)	93.RD	RMH100002C	179,965	337,752
Does Preference-based HIV Testing Increase Uptake in High Risk Populations?	93.RD	RMH106388B	265,476	547,946
Examining the Role of the Lissencephaly Protein, Lis1, in Dynein-based Transport	93.RD	RNS056314C	-	20,781
Functions of Heparan Sulfate Proteoglycans in Axon Guidance and Degeneration.	93.RD	RNS083714B	-	4,552
Protein Succination as a Mediator of Neuropathology in Mitochondrial Disease	93.RD	RNS092938A	-	185,373
Biomedical-Behavioral Interface: Prevention and Developmental Sciences Training	93.RD	TGM081740C	-	(120)
Evaluation Services for Mary Black Foundation's OAH1B Grant	93.RD	TP1AH0001190100	-	(37)
Transition Alliance of South Carolina	93.RD	TransitionAlliance	29,999	639,274
Research Supplements to Promote Diversity - Individualizing Colon Cancer Therapy Using Hybrid RNA and DNA Mol. Signature	93.RD	U01 CA157960-03 SN03	-	(2)
Health Promotion and Disease Prevention Research Centers; Faith, Activity, and Nutrition: Dissemination in Underserved Communities(CENTER CORE)	93.RD	U48DP005000-02	-	(228)
South Carolina Cancer Disparities Community Network - II (Yr 5)Admin Core	93.397	UCA153461B	-	33,489
A Genetic Model for Early-Onset Breast and Colon Cancer in African Americans	93.RD	UCA158428C	13,573	82,241
Trans-cranial Direct Current Stimulation to Treat Aphasia: Phase II Trial	93.173	UDC011739B	-	(19)
Trans-cranial Direct Current Stimulation to Treat Aphasia: Phase II Trial	93.RD	UDC011739C	168,320	368,268
Collaborating with Community Agencies to Promote Youth Empowerment in Mental Health	93.RD	UL1TR001450	-	4,729
COG-Study Chair NIH Phase 1 Grant (UM1CA097452)	93.RD	UM1CA097452	4,167	24,190
Convening Sector Representatives to Increase Walking and Walkable Communities - Sub-contract with McKing Consulting	93.RD	USC-04-4574	-	18,641
Predicting menthol cigarette and flavored cigar smokers? responses to menthol or flavored tobacco restrictions: results from experimental auctions	93.RD	USC-7020	-	7,340
Predicting Long-term Salt Marsh Response to Episodic Sediment Deposition Events Under Sea-level Rise	93.RD	W912HZ-16-2-0019	-	94,269

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Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
US Department of Health and Human Services, continued				
Correlates of Physical Activity among Preschoolers with Developmental Delay and Autism	93.RD	WA00583861/OSP2017204	-	17,561
Utilizing Physical Activity Coordinators to Increase Physical Activity among Youth - Sub-contract with Wake Forest - Baptist Medical Center	93.RD	WUHS112216	-	(24,618)
Evaluation of Training and Technical Assistance Activities to Increase Implementation of Evidence-Based Cancer Prevention and Control (NCI Supplement / USC Subcontract)	93.RD	WU-17-216	-	48,887
NIDIS Carolinas DEWS program	93.RD	Z16-24906	-	38,238
Voltammetric Determination of Neuronal Serotonin and Histamine Co-Regulation	93.242	1R21MH109959-01A1	39,205	170,965
ParkIndex: A tool for advancing parks and public health research and practice	93.394	1R21CA202693-01A1	36,515	144,703
Mechanisms of Iron and Thiol Redox Regulation in Yeast	93.859	1R35GM118164-01	-	432,763
Passed through programs from:				
Acumentrics				
Leadership Education in Neurodevelopmental and Related Disorders (LEND)Subcontract	93.RD	MUSC16-094-88921	-	54
American International Health Alliance				
University of West Indies (UWI), Jamaica/University of South Carolina Twinning Project Partnership to Support Infectious Disease Post-Graduate Fellowship Training at UWI	93.RD	H-F0-JAM-14-P-PTR-SCWI-00	-	66
Boston Univ Res. Accting				
Modeling Agreement in Cancer Diagnostic Tests	93.RD	4500001491	-	213
Brandeis University				
Subcontract from Brandeis University - South Carolina Opioid Safety Initiative in the Military (SCOSI-M)	93.RD	402269	-	(3,602)
Case Western Reserve University				
CBCAP-Parenting Program 2016	93.RD	S-CBCAP-2017-2	-	5,656
Children's Hospital PA				
COG Chair Grant: Per Case Reimbursement	93.RD	U10CA098543	12,650	35,171
Children's Trust Fund of South Carolina				
Healthy South Carolina Initiative: Community Transformation Plan	93.RD	CY-4-509	-	-
Online Monitoring System for Concrete Structures Affected by Alkali-Silica Reaction (ASR)	93.RD	25-1120-0014-002	-	65,810
SCAMP Phase III: Enhancing Opportunities to Transition Students into Successful STEM Pathways	93.RD	13-581099-SCAMP	-	300
SNAP Marketing - Sub to Hub City Farmer's Market	93.RD	SNAP-FSUP-15-SC	-	582
Subaward: Hub Health Study: A research proposal in response to Time-Sensitive Obesity Policy and Program Evaluation	93.RD	RES510055	-	13,861
Subaward: Investigating Febrile Deaths In Tanzania (INDITE)	93.RD	2035472	-	(1,814)
Cincinnati Children's Hospital				
TCD with Transfusions Changing to Hydroxyeura-Subaward with Cincinnati Children's--Amendment	93.RD	132981	-	511
City of Columbia				
RII Track-2 FEC: Bridging Cognitive Science and Neuroscience Using Innovative Imaging Technologies	93.RD	MUSC16-073-8B357	-	11,236
South Carolina Muscular Dystrophy Surveillance System	93.RD	MC-15-011	7,120	195,853
Clemson University				
Multisectoral Agricultural Intervention to Improve Food Security, Prevent Treatment Failure, and Reduce Co-morbidities Among People Living with HIV in Kenya	93.RD	9343sc	-	68,533
Transforming Introductory Astronomy at USC	93.RD	521179-RP	-	1,999
College of Charleston				
SF 2015 and 2016 QI/QA Contract	93.RD	RISK	-	954,172
Site Review of SRNL	93.RD	1946-205-2011926	-	5,714
Columbia University				
Subcutaneously Implantable Affinity Microsensor for Stable and Accurate Monitoring of Glucose	93.RD	1(GG007864)	-	3,174
Duke University				
PASOs and WIC Partnership Agreement	93.RD	CH-7-703	6,673	8,963
Emery University				
NSTAR2017 (JLAB Support) 11th International Workshop on the Physics of Excited Nucleons	93.RD	NSTAR2017	-	2,000
Family Connection of SC				
South Carolina Clinical and Translational Research Institute - HSSC Subcontract	93.RD	MUSC15-104	-	24,775
Florida State University				
Explore Innovative Chemistry of Natural Gas Conversion to DME (Dimethyl Ether)	93.RD	CEB00007	-	47
Gas Technology Institute				
Evaluation and Training Services for SC DHEC's WISEWOMAN Program	93.RD	CY-6-309	-	(182)
General Atomics				
Cyclus Community Manager	93.RD	185645	-	25,644
George Mason University				
Multi-Sectoral Agricultural Intervention to Improve Nutrition, Health, and Developmental Outcomes of HIV-infected and Affected Children in Western Kenya	93.RD	136059	-	4,658
Georgia Institute of Technology				
Palmetto Project ACA Navigators 2015-2016	93.RD	11500FL43	-	92
Global Technology Connection				
Expanding the Reach of Effective Teen Pregnancy Prevention Programs in High Need South Carolina Communities (Tier 1B) (OAH1B)	93.RD	PREV TEEN PREG	-	29,677
Lexington County School District				
Evaluating the Impact of Mandatory Nutrition Information on Menus	93.RD	117845	-	2,002
Long Island Head Start				
Adapting and Testing an Alzheimers Family Caregiver Intervention in Vietnam	93.RD	201602016-02	-	102,938
Louisiana State University				
Skeletal Muscle Atrophy and Dysfunction in Human Cancer - Sub-contract with University of Vermont School of Medicine	93.RD	30704SUBS2097	-	(1,721)
McKing Consulting Corporation				
Microstructure Experiments-Enabled MARMOT Simulations of SiC/SiC-based Accident Tolerant Nuclear Fuel System	93.RD	2016-2122-02	-	49,539

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Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
US Department of Health and Human Services, continued				
Passed through programs from:				
Medical University of South Carolina				
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	93.RD	FA9550-16-1-0623	-	455,000
Brief, Novel Smoking Cessation in Primary Care: A Comparative Effectiveness Trial	93.RD	MUSC13-068	-	138,095
Complement-factor H-based Therapeutics in an Age-related Macular Degeneration	93.RD	MUSC14-084	-	(968)
Crest 2	93.RD	MUSC14-050	-	(3,109)
Mental Illness Recovery Center Inc				
South Carolina Archaeology Month Poster 2017	93.RD	21300FB05	-	3,911
National Institute of Aerospace				
SC DHEC Environmental Public Health Tracking Project	93.RD	PH-7-555	-	1,609
National Writing Project				
Macroevolutionary Analyses of Cranial Morphology and Function in Mammals	93.RD	UWSC8979-BPO#15818	-	5,279
Nat'l Council of Juv. Family Ct. Judges				
Innovative Approaches for Enhancing Passive Water Management of Hydrogen Pump	93.RD	18430A	-	39,137
University of Michigan Subaward: A Positive PATH (Promoting Activity and Trajectories of Health) for Children	93.RD	3004173082	-	51,084
PPI Pharmaceuticals, LLC				
Precision Glycopolymers Bacteriochlorin Conjugates for Biomedical Applications	93.RD	OGC 2015-16	-	28,976
Savannah River Laboratory				
Theranostic approach to treat abdominal aortic aneurysms	93.RD	1935-209-2011885	-	95,991
Savannah River Nuclear Solutions				
2017 NWP Advanced Institute to Scale-Up CRWP Grant	93.RD	92-SC06-SEED2017-CRWP/PAI	-	13,502
Fractional PDEs for Conservation Laws and Beyond: Theory, Numerics and Applications	93.RD	00001032	-	24,958
SC DHHS Palmetto Coordinated System of Care Evaluation	93.RD	A201812156A	-	14,695
SC Department of Education				
K99/R00 Grant Transfer Application: Acceptability and Feasibility of Unsupervised HIV Self-Testing Among Networks of Men in Tanzania	93.RD	7K99MH110343-02	-	57,635
Studying Community Programs to Reduce Childhood Obesity - sub-contract with Battelle Memorial Institute	93.RD	236804	-	(716)
SC Department of Health & Human Services				
Site Review of SRNL	93.RD	1946-205-2011926	-	9,480
SC Office of the Adjutant General				
Predictive Modeling, Inverse Problems and Uncertainty Quantification with Application to Emergency Response	93.RD	435052	-	226,805
SE Coastal Ocean Observing Regional Assn				
Evaluating Living Shorelines to Inform Regulatory Decision-Making in South Carolina	93.RD	SCDNR FY2016-017	-	28,833
Senex Biotechnology Inc				
Enhanced Practice Transformation and Population Health Training for Interprofessional Trainees and Faculty	93.RD	MUSC16-098-8C311	-	30,540
South Carolina Campaign to Prevent Teen Pregnancy				
Convening Sector Representatives to Increase Walking and Walkable Communities - Sub-contract with McKing Consulting	93.RD	USC-04-4574	-	786
Estimation of Volume and Freshwater Flux from the Arctic Ocean using NASA's SMAP mission	93.RD	521179-RP-USCBusulu2	-	9,975
South Carolina Commission on Higher Education				
Scale It Up: Effectiveness-Implementation Research to Enhance HIV-Related Self-Management among Adolescents and Young Adults - Analytic Core for U19 Application	93.RD	WSU17012	-	(7,520)
South Carolina Court Administration				
South Carolina Collaborative Alliance for Stroke Trials- (SC-CoAST)- USC Subaward	93.RD	MUSC13-069	-	(6,038)
South Carolina Department of Disabilities and Special Needs				
Evaluation Services for Mary Black Foundation's OAH1B Grant	93.RD	TP1AH0001190100	-	40,166
South Carolina Department of Health and Environmental Control				
NRF2 Signaling in the Cross-Talk between Proteasomal and Lysosomal Degradation	93.RD	UP1700008A	-	133,961
South Carolina Department of Health and Human Services				
Center For Colon Cancer Research - Administrative Core	93.RD	5P30GM103336-05	-	120,121
Children's Trust MIECHV Workforce Evaluation	93.RD	2016USC02	-	15,470
Marlboro County FoodShare Expansion Project	93.RD	46-040-570967350	-	11,776
School Climate Profile Development for the Carolina Consortium for Enterprise Learning	93.RD	CAROLINA CONSOR	-	48,992
Youth Homelessness Evaluation - MIRCI, Inc.	93.RD	1H79SM06330-01	-	70,188
South Carolina Research Foundation				
National Writing Project 2017-2018 SEED Invitational Leadership Institute Grant	93.RD	07-SC12-SEED2017-ILI	-	13,765
Rural Health Research Center Cooperative Agreement 2014-2015	93.RD	15U1CRH037111	-	(312)
Platelet-Oriented Inhibition in New T1A	93.RD	1U01NS026835-01A1	-	5,764
Language Development in Fragile X Syndrome	93.865	201118600-01	-	12,598
Evaluation of a Law Enforcement Motor-Vehicle Crash Prevention Program	93.RD	212-2014-M58154	-	230
The Study of Epigenetics and Infections in the TEDDY Study	93.RD	6163-1017-00-AV	-	(10,412)
Pathways from Food Insecurity to Treatment and Health Outcomes in Women with HIV	93.RD	7440sc	-	15,523
Systolic Blood Pressure Intervention Trial (SPRINT)	93.RD	NONE	-	85,163
Conformational Dynamics and Allosteric Regulation During Stress-responsive Metallofactor Assembly	93.RD	UA15-040	-	4,988
South Carolina Sea Grant Consortium				
Subcontract: Determining the Mechanisms Governing Transmissibility among Amyloid-Beta Oligomers	93.RD	USM-GR05433-01	-	29,234
Texas Tech University				
University of South Carolina Subaward: Impact of Video Games on Underserved Childrens Health	93.RD	21F086-03	-	(714)
The University of Alabama				
Conformational Dynamics and Allosteric Regulation During Stress-responsive Metallofactor Assembly	93.RD	UA15-040	-	125,675
Trustees of Dartmouth College				
Cinema Smoking and Youth Smoking in Latin America	93.RD	RTW009274B-1066R113	-	32,086
STEM Forward: Building High Impact Talent	93.RD	H63010008215	-	(28,686)

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US Department of Health and Human Services, continued				
Passed through programs from:				
Univ of Wisconsin-Madison				
Assessing Uncertainty in Input Variables of the STREAM2V3 Code	93.RD	G-SOW-A-01956;CEB00013	-	6,040
University of California, Davis				
Improving Sickle cell care in Adolescents & Adults in Chicago (ISAAC) subcontract from U. of Illinois-Chicago	93.RD	16045	-	67,223
University of Central Florida				
Fractional PDEs for Conservation Laws and Beyond: Theory, Numerics and Applications	93.RD	00000851	-	159,741
University of Illinois				
Coping with Drought RISA Team Meeting	93.RD	2017-08	-	8,213
University of North Carolina at Chapel Hill				
SEARCH Nutrition Ancillary Study 2 (SNAS2)	93.213	5-34496	-	14,548
Reducing Racial Disparities in Access to Kidney Transplantation: the RaDIANT Regional Study	93.RD	T761720 T605656	-	27,619
Reducing Racial Disparities in Access to Kidney Transplantation: the RaDIANT Regional Study	93.RD	T930613	-	9,945
University of Oklahoma				
South Carolina Historical Newspapers, adding more	93.RD	IIF-16-01	-	3,991
University of Pittsburgh				
A Promotora-mediated, Family-based Intervention to Prevent Obesity in Latino Preschool Children - Sub-contract with University of Pittsburgh	93.RD	0045199(125081-1)	-	(8,280)
University of Southern Mississippi				
Southeast Offshore Storage Resource Assessment (SOSRA)	93.RD	DE-FE0026086	-	78,213
Upper Coastal Plain Council of Governments				
Population-base Diabetes in Youth Registry	93.RD	5102576	-	24,966
Vanderbilt University				
FrontierSN3 : Third year of Frontier Fields Supernova Search	93.RD	HST-GO-14208.022-A	-	7,831
MINT - mHealth-Assisted Conditional Cash Transfers to Improve Timeliness of Childhood Vaccinations	93.RD	203-5317	-	50,423
USC Upstate Generators and Wiring Upgrades	93.RD	4166-DR-SC	-	30,695
Westat				
Southeast Offshore Storage Resource Assessment (SOSRA)	93.RD	SOSRA-981	-	165,843
Total US Department of Health and Human Services			<u>7,275,385</u>	<u>56,263,329</u>
US Department of Homeland Security				
Emergency Warning System USC Beaufort Pre-application	97.RD	4166-DR-SC	-	88,155
Nuclear Forensics Graduate Fellowship Program - Formerly MUSC	97.RD	2012-DN-130-NF0001	-	252,287
USC Disaster Resistant University Plan Update	97.RD	PDMC-PL-04-SC-2015-005	-	9,424
Passed through programs from:				
South Carolina Research Foundation				
Tracking Airborne and Satellite Remote Sensing Collection Assets for Emergency Response Phase	97.RD	HSQDC-11-C-00151	-	(286)
South Carolina Universities Research and Education Foundation				
Nuclear Forensics Undergraduate Scholarship Program	97.130	NF13001	-	425
Nuclear Forensics Minority Serving Institution Collaboration Award Program	97.RD	NF13006	13,256	40,218
Total US Department of Homeland Security			<u>13,256</u>	<u>390,223</u>
Total Research and Development Cluster			<u>11,515,458</u>	<u>96,731,353</u>
Financial Aid Cluster				
US Department of Education				
Federal Perkins Loan Program	84.038		-	17,580,061
Financial Aid Direct Loans 17-18	84.268		-	312,388,158
Financial Aid Federal Work Study 17-18	84.033		-	2,262,819
Financial Aid FWS Job Location 17-18	84.033		-	5,049
Financial Aid Iraq & Afghanistan 17-18	84.408		-	11,023
Financial Aid Pell 17-18	84.063		-	57,084,717
Financial Aid Pell Administration 17-18	84.063		-	64,445
Financial Aid SEOG Grant 17-18	84.007		-	1,695,098
Financial Aid TEACH Grant 17-18	84.379		-	192,135
Total US Department of Education			-	<u>391,283,505</u>
US Department of Health and Human Services				
Nursing Faculty Loan Program	93.264	EP1HP28846-02-00	-	612,304
Health Professions Student Loan - Pharmacy	93.342	NONE	-	735,994
Health Professions Student Loan - Medicine	93.342	NONE	-	3,210
Health Professions Student Loan - Primary Care	93.342	NONE	-	106
Two Year Nursing Program	93.364	NONE	-	12,055
Four Year Nursing Program	93.364	NONE	-	811,743
Master Nursing Program	93.364	NONE	-	119,506
Total US Department of Health and Human Services			-	<u>2,294,918</u>
Total Financial Aid Cluster			-	<u>393,578,423</u>

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<u>Trio Cluster</u>				
US Department of Education				
Student Support Services (SSS)	84.042	P042A150221	-	200,832
Student Support Services	84.042	P042A150362	-	365,892
Student Support Services 2010-2015	84.042	P042A151228	-	226,597
Talent Search Program	84.044	P044A110078	-	(16)
Talent Search Program	84.044	P044A160017	-	504,801
Upward Bound University of South Carolina Sumter Campus	84.047	P047A171401	-	173,165
Ronald E. McNair Post Baccalaureate Achievement Program	84.217	P217A120040	-	25,125
2017 Ronald E. McNair Post-baccalaureate Achievement Program	84.217	P217A170015	-	203,302
Passed through programs from:				
South Carolina Research Foundation				
Student Support Services	84.042	NONE	-	20,000
Student Support Services 2010-15	84.042	NONE	-	258,349
Student Support Services 2010-2015	84.042	P042A101465-14	-	(8,989)
Student Support Services 2010-15	84.042	P042A150625	-	26,947
Student Support Services 2010-2015	84.042	P042A151228	-	26,047
USC Lancaster Upward Bound	84.047	P047A120485	-	41,720
University of South Carolina Columbia Upward Bound Program	84.047	P047A121668	-	(13,039)
University of South Carolina Columbia Upward Bound Program	84.047	P047A170639	-	539,736
USC Lancaster Upward Bound	84.047	P047A171434	-	212,583
Universal Technology Corporation				
Student Support Services	84.042	P042A150610	-	281,784
Total US Department of Education			-	3,084,836
Total Trio Cluster			-	3,084,836
<u>Special Education Cluster (IDEA)</u>				
US Department of Education				
Project CREATE	84.027	SC-CREATE	-	175,448
Project CREATE 2014-15	84.027	H63010100913	-	36,207
SC CREATE 2017-2018	84.027	17110FX00	-	4,564
Passed through programs from:				
SC Department of Education				
Project CREATE	84.027	H63010100915	-	(17,923)
SC Research Foundation				
South Carolina University Center for Excellence in Developmental Disabilities	84.027	90DD0673-05-00	-	23,393
Total US Department of Education			-	221,689
Total Special Education Cluster (IDEA)			-	221,689
<u>WIOA Cluster</u>				
US Department of Labor				
Passed through programs from:				
Upstate Workforce Investment				
ACHIEVE 2015-16	17.259	RISK	-	347,348
Total US Department of Labor			-	347,348
Total WIOA Cluster			-	347,348
<u>Maternal, Infant, and Early Childhood Home Visiting Cluster</u>				
US Department of Health and Human Services				
Children's Trust MIECHV Workforce Evaluation	93.870	2016USC02	-	18,761
MIECHV Contract - Expansion Funding 2015-2016	93.505	C-MIEC-F-2016-PASOS	-	12,341
MIECHV Contract - Expansion Funding 2015-2016	93.505	D89MC28260	-	37,359
Children's Trust MIECHV Expanded Workforce Evaluation Part I	93.870	NONE	-	128,882
MIECHV Contract - Formula Funding 2015-2016	93.505	X02MC28246	-	34,949
Passed through programs from:				
Children's Trust Fund of South Carolina				
MIECHV - Competitive Grant	93.505	CHILDREN'S TRUST	16,348	141,622
MIECHV-Expansion Children's Trust 2014 - 2015	93.505	CHILDREN'S TRUST	-	(15,373)
Los Alamos National Laboratory				
MIECHV Contract - Expansion Funding 2015-2016	93.505	NONE	-	(1)
South Carolina Department of Health and Environmental Control				
Children's Trust MIECHV Workforce Evaluation	93.870	2016USC02	-	232,236
Total US Department of Health and Human Services			16,348	590,776
Total Maternal, Infant, and Early Childhood Home Visiting Cluster			16,348	590,776
<u>Tribal Maternal, Infant, and Early Childhood Home Visiting Cluster</u>				
US Department of Health and Human Services				
Community Support for Young Parents (CSYP) Evaluation	93.872	11550FL43	-	123,204
Total US Department of Health and Human Services			-	123,204
Total Tribal Maternal, Infant, and Early Childhood Home Visiting Cluster			-	123,204

The accompanying notes are an integral part of this schedule.

University of South Carolina
Schedule of Expenditures of Federal Awards
For the year ended June 30, 2018

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
Medicaid Cluster				
US Department of Health and Human Services				
DHHS/SCCAMRS Administrative Contract 2014/15	93.778	A20181593A	-	274,700
Total US Department of Health and Human Services			-	274,700
Total Medicaid Cluster			-	274,700
Other Programs				
US Department of Agriculture				
PASOs and WIC Partnership Agreement	10.557	CH-8-781	31,923	88,778
FRUVED Project	10.310	71000FL10	-	2,451
Total US Department of Agriculture			31,923	91,229
US Department of Commerce				
USC Center for Applied Innovation and Advanced Analytics - i6	11.020	ED17HDQ0200091	-	13,337
EDA Grant - University Innovation Center Clusters	11.303	ED17ATL3030040	-	82,396
Total US Department of Commerce			-	95,733
US Department of Defense				
NROTC Educational Instruction Calculus and Physics	12.999	N6331305RQ44A01	-	1,836
DOD SC Junior Science and Humanities Symposium 2015	12.300	NONE	-	109
USC Junior Science & Humanities Symposium (JSHS) 2018	12.630	NONE	-	10,987
Procurement Technical Assistance Program for Business Firms	12.022	SP4800-15-2-1582	-	(101)
Procurement Technical Assistance Program for Business Firms	12.022	SP4800-17-2-1782	-	179,369
Passed through programs from:				
Vanderbilt University				
National Register Evaluations for Six Late Discoveries, Fort Jackson, SC	12.300	W9126G-16-2-0019	-	87,174
Total US Department of Defense			-	279,374
US Department of Housing and Urban Development				
HOPWA Case Management, Mental Health and Substance Abuse Services in the Columbia EMSA	14.241	18190-FM43	48,921	327,526
HOPWA Case Management, Mental Health and Substance Abuse Services in the Columbia EMSA	14.241	CITY OF COLUMBIA	-	(542)
HOPWA Case Management, Mental Health and Substance Abuse Services in the Columbia EMSA	14.241	RISK	-	13
Total US Department of Housing and Urban Development			48,921	326,997
US Department of Interior				
Operation of the Mid-America Integrated Seismic Network - 2015-2019 - USC	15.807	G15AC00022	-	22,153
Total US Department of Interior			-	22,153
US Department of Justice				
1J15007- Connection of Child Maltreatment and Juvenile Justice	16.540	1J13008	-	45,218
1J15007- Connection of Child Maltreatment and Juvenile Justice	16.540	1J15007	-	2,219
Statewide Initiative to Reduce the Institutionalization of Status Offenders	16.523	1JS13003	-	(6,394)
SC Higher Education Partnership on Correctional Mental Health (full proposal)	16.751	2014-DP-BX-0001	-	149,608
Total US Department of Justice			-	190,651
US Department of Transportation				
Dwight David Eisenhower Transportation Fellowship Program Graduate Fellowship - Hazel Bridges	20.215	693JJ31845066	-	5,007
Total US Department of Transportation			-	5,007
National Endowment for the Humanities				
IV Annual Translation and Interpreting Panel: Literary Translation	45.129	17-1768-4	-	1,000
The Literature of Caregiving: Fostering a Humanities-based Culture of Care	45.129	17-1776-1	-	2,676
America's Reconstruction: The Untold Story	45.163	ES-250824-16	-	88,459
America's Reconstruction: The Untold Story	45.163	ES-256830-17	-	99,057
America's Reconstruction: The Untold Story	45.163	ES-50571-14	-	994
American (Jewish) Humor in an Era of Ethnic Sensitivity and Cultural Competence	45.129	NONE	-	2,000
Passed through programs from:				
South Carolina Research Foundation				
Fox Movietone News Digitization Project, Phase I	45.149	PW-51427-13	-	(15)
Total National Endowment for the Humanities			-	194,171
National Science Foundation				
Developing Master Teachers through the South Carolina Science and Mathematics Teacher Leaders program	47.076	DUE-1439842	-	292,728
University of South Carolina Science and Mathematics Teachers Initiative Phase 2: Continuing to Improve Teacher Preparation & Retention	47.076	1660700	10,000	234,328
Passed through programs from:				
South Carolina Research Foundation				
University of South Carolina Science and Mathematics Teachers Initiative (USC-SMTI)	47.076	DUE-1035379	-	2,291
Total National Science Foundation			10,000	529,347
Small Business Administration				
Office of Small Business Development Centers Program Announcement-2015 (USC)	59.037	RISK	-	970,790
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-B0042	-	(1,347)
Office of Small Business Development Centers Program Announcement-2015 (USC)	59.037	SBAHQ-17-B-0042	-	17,941
Total Small Business Administration			-	987,418
US Environmental Protection Agency				
Ground Subsidence Study using InSAR and Groundwater data in Georgetown, South Carolina	66.204	SCDNR FY2017-019	-	29,299
Total US Environmental Protection Agency			-	29,299

The accompanying notes are an integral part of this schedule.

University of South Carolina
Schedule of Expenditures of Federal Awards
For the year ended June 30, 2018

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
US Department of Energy				
WORC	81.104	DE-EM0004214	-	234,025
CyclusJS: A Distributed Web-based Fuel Cycle Visual Analytics System	81.121	10041588-UofSC	-	78,159
Savannah River Environmental Sciences Field Station	81.999	RISK	-	56,392
Passed through programs from:				
South Carolina Emergency Management Division				
Savannah River Environmental Sciences Field Station	81.999	B139031	11,280	68,638
United Technologies Corporation				
Savannah River Environmental Sciences Field Station	81.999	RISK	98,792	349,897
Total US Department of Energy			110,072	787,111
US Department of Education				
Learning Through ACCESS	84.367	15250FL61	-	980
Evaluation of the Med Pro 21 Magnet Program for Richland School District Two	84.165	15270FL03	-	87,041
School Psychology Specialization in Toddlers with Autism Spectrum Disorders	84.325	24-1714-0097-004	-	16,481
SWWP Advanced Institute College-Ready Writers Program	84.367	92-SC06-SEED2016-ILI	-	(600)
Rehabilitation Long-Term Training: Expanding the Next Generation of Psychiatric Rehabilitation Professionals	84.129	H129H140008	-	170,439
Project FOCUS: Preparing Special Education Administrators with a Focus on Research to Practice in Transition	84.325	H325D150006	-	284,537
Project IMPACT: Impacting Adult Life Outcomes for Individuals with Severe Disabilities	84.325	H325K160020	-	189,032
USC Special Education Program Improvement Project (USC SEPIP)	84.325	H325T110004	-	9,590
STEP: Science Teaching Enhancement Project 2014-15	84.366	H63010008215	-	(20)
Strengthening USC Upstate By Investing in Student Engagement and Advising Success	84.031	P031A140156	-	462,248
Vocational Rehabilitation Workforce Development: Increasing the Number of Qualified Vocational Rehabilitation Counselors in South Carolina (RSA LTT)	84.129	H129W150004	-	190,872
Passed through programs from:				
College of Charleston				
Standards Based Integrated Instruction: The Next Step (SBII) Program	84.366	H63010008217	-	30,562
SC Department of Education				
SC Gateways: From Cradle to Career 2014	84.323	H63010013313	-	(55,857)
South Carolina Research Foundation				
SC Gateways: From Cradles to Career	84.323	H63010013314	-	(1,166)
Total US Department of Education			-	1,384,139
US Department of Health and Human Services				
Children's Law Center: Child Welfare Training	93.648	4400010919	-	1,136,760
Children's Law Center: Investigations and External Legal Training	93.669	4400010977	-	340,168
Children's Law Center: Projects	93.667	4400010978	-	1,278,522
Children's Justice Act: Support of Task Force	93.648	44000010905	-	69,154
An Innovative Approach to Inclusive Health	93.184	000512145-007	191	7,712
Project Connect: Connecting PSE Programs and Adult Agencies	93.630	06-21-0003	-	(20,654)
Expansion of the Transition Alliance of South Carolina (TASC)	93.630	06-21-0027	-	(275)
Project Connect: Connecting PSE Programs and Adult Agencies	93.630	07-21-0003	-	37,177
IMPACT SC Self-Advocacy Initiatives	93.630	07-21-0055	-	36,159
South Carolina Assistive Technology Expo 2016	93.464	07-21-0065	-	5,000
Program Evaluation for Family Connection of South Carolina	93.504	15900FL54	-	22,980
South Carolina Assistive Technology Program	93.464	1601SCSGAT	-	138,815
South Carolina Assistive Technology Program	93.464	1701SCSGAT	-	415,952
The Health Occupations Providing Excellence in SBIRT (HOPES)	93.243	1H79TI026428-01	8,576	92,850
Court Administration Training Grant	93.586	2017G991513	-	129,875
Court Administration Basic Grant	93.586	2017G996437/2017G996471	-	110,137
Capacity Building Center for the Courts	93.999	36418-SVU-1	-	44,186
Preventive Medicine and Public Health Training Program	93.117	5D33HP26995-04-00	75,048	147,653
Training for Transitions: Preparedness for Behavioral Health Social Workers (TFT)	93.243	5G02HP27995-03-00	-	13,625
The Health Occupations Providing Excellence in SBIRT (HOPES)	93.243	5H79TI1026428-02	8,508	147,621
Improving the Health of People with Mobility Limitations and Intellectual Disabilities Through State-Based Public Health Programs	93.184	5NU27DD000011-02-00	38,639	334,897
Home C2OOKING: Creative Culinary Opportunities Offering Kids Inquiry-Based Nutritional Genius	93.859	A18-0008-S002	-	1,375
Innovative Service Design in Behavioral Health Organizations Training	93.243	A201812804A	-	36,622
Developmental Evaluation Center Services 2015	93.999	C85755M	-	938,773
Preventive Medicine and Public Health Training Program	93.117	D33HP-26995-03-00	88,440	88,521
Ryan White HIV/AIDS Program Part D Grants for Coordinated HIV Services and Access to Research for Women, Infants, Children, and Youth (WICY)	93.917	H12HA28853	-	57,327
South Carolina Assistive Technology Program	93.464	H224A150040	-	(55)
Perinatal HIV Prevention: Comprehensive Risk Counseling and Services	93.940	HV-7-558	-	40,999
Ryan White HIV/AIDS Treatment Extension Act - Ryan White Part B (Emerging Communities)	93.917	HV-7-778	2,776,388	2,792,695
Leadership Education in Neurodevelopmental and Related Disorders (LEND)Subcontract	93.110	MUSC11-102	-	(2,708)
Leadership Education in Neurodevelopmental and Related Disorders (LEND)Subcontract	93.110	MUSC16-094-88921	-	131,475
Child Welfare Training (2015-2016)	93.643	RISK	-	(9,844)
Improving the Health of People with Mobility Limitations and Intellectual Disabilities Through State-Based Public Health Programs	93.184	RISK	-	23,120
Ryan White HIV/AIDS Treatment Extension Act - Ryan White Part B (Emerging Communities)	93.917	RISK	-	57,352
CBCAP-Parenting Program 2016	93.590	S-CBCAP-2018-3	-	43,086
Upper Midlands Regional Health Network 2014-2017	93.999	UMRHN/HRSA ORHP	-	1
AETC National Coordinating Resource Center- Hepatitis C	93.145	VUMC64412	-	6,001
Evaluation and Training Services for SC DHEC's WISEWOMAN Program	93.094	WW-8-882	-	23,620

The accompanying notes are an integral part of this schedule.

University of South Carolina
Schedule of Expenditures of Federal Awards
For the year ended June 30, 2018

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
US Department of Health and Human Services, continued				
Passed through programs from:				
Benedict College				
Department of Health and Human Services Grant for a Branch Medical Campus of the SOM in Florence, SC	93.999	FRANCIS MARION	-	1,132,856
Children's Trust Fund of South Carolina				
Children's Trust Maternal, Infant, and Earl Childhood Home Visiting Program	93.615	CHILDREN S TRUST	-	80,367
Greenway Energy				
Ryan White HIV/AIDS Treatment Extension Act - Ryan White Part B (Emerging Communities)	93.917	HV-5-572	-	159,427
Jacobs Technology, Inc.				
Ryan White HIV/AIDS Treatment Extension Act - Ryan White Part B (Emerging Communities)	93.917	HV-4-791	-	120,326
Savannah River Laboratory				
Program Evaluation for Family Connection of South Carolina	93.504	15900FL53	-	(7,309)
South Carolina Campaign to Prevent Teen Pregnancy				
Use of an Innovative Evaluation Technique to Evaluate the Impact of the Pregnancy Assistance Fund in SC	93.500	NONE	-	(3,277)
South Carolina Commission on National & Community Service				
Children's Trust Support for Expectant and Parenting Teens, Women, Fathers and their Families (PAF) Program Evaluation	93.500	CHILDREN'S TRUST 2016	2,441	15,846
South Carolina Research Foundation				
South Carolina Poison Center Support and Enhancement Project	93.253	H4BHS15545	-	240,813
Improving the Health of People with Disabilities through Stated Based Public Health Programs	93.184	000945DD15-04	-	(535)
Improving the Health of People with Disabilities through Stated Based Public Health Programs	93.184	SU59DD000945-03	-	(71)
South Carolina Universities Research and Education Foundation				
Ryan White HIV/AIDS Treatment Extension Act - Part B (Minority AIDS Initiative)	93.917	HV-5-577	32,037	39,304
Spectral Energies, LLC				
Court Administration Basic Grant	93.586	SC COURT ADM	-	42,303
Vanderbilt University				
South Carolina HIV/AIDS Clinical Training Center/Vanderbilt - Inter-Professional Education (IPE)	93.145	VUMC56743	-	248,146
Total US Department of Health and Human Services			<u>3,030,268</u>	<u>10,784,870</u>
National and Community Service				
USCAiken AmeriCorps Saturday Academy - SC Commission Grant	94.999	NONE	-	5,526
Passed through programs from:				
University of Kansas Center for Research				
USCAiken AmeriCorps Saturday Academy - SC Commission Grant	94.999	14ACHS0010001	-	(1,950)
Total National and Community Service			<u>-</u>	<u>3,576</u>
Total Other Programs			<u>3,231,184</u>	<u>15,711,075</u>
Total Federal Expenditures			<u>\$ 14,762,990</u>	<u>\$ 510,663,404</u>

The accompanying notes are an integral part of this schedule.

University of South Carolina

Notes to Schedule of Expenditures of Federal Awards For the year ended June 30, 2018

Note 1. Basis of Presentation

The accompanying Schedule of Expenditures of Federal Awards (the Schedule), includes the federal grant activity of the University of South Carolina (the University) under programs of the federal government for the year ended June 30, 2018. 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, 2018 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, 2018 consists of:

Number	Program Name	Outstanding Balance at June 30, 2018
84.038	Federal Perkins Loan	\$ 14,798,701
93.364	Nursing Student Loans	799,533
93.342	Health Professions Student Loans	608,015
93.264	Nurse Faculty Loan Program	583,917

University of South Carolina

Notes to Schedule of Expenditures of Federal Awards *For the year ended June 30, 2018*

Note 4. Federal Perkins Loan Program Liquidation (CFDA Number 84.038)

The Federal Perkins Loan Program expired September 30, 2017, and the University could not disburse Perkins loans to any student on or after October 1, 2017, except for subsequent disbursements of loans first disbursed between June 30, 2017 and September 30, 2017. The University will be liquidating its Federal Perkins Revolving Loan Fund at the direction of the Department of Education. The liquidation will likely involve the University assigning all eligible outstanding loans to the Department of Education and the remittance of federal share of remaining Perkins cash assets to the Department of Education.

Note 5. 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, 2018, 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, 2018. 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 certain deficiencies in internal control, described in the accompanying Schedule of Findings and Questioned Costs as items 2018-001, 2018-002, and 2018-003 that we consider to be significant deficiencies.

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.

A handwritten signature in black ink that reads "Elliott Davis, LLC". The signature is written in a cursive, flowing style.

Columbia, South Carolina
October 1, 2018

**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 *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, 2018. 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 \$4.5 million in federal awards which is not included in the Schedule of Expenditures of Federal Awards during the year ended June 30, 2018. 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, 2018.

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 2018-004, 2018-005, 2018-006, 2018-007, 2018-008, 2018-009, and 2018-010. 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 deficiency in internal control over compliance described in the accompanying Schedule of Findings and Questioned Costs as item 2018-004 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 2018-005, 2018-006, 2018-007, 2018-008, 2018-009, and 2018-010 to be significant deficiencies.

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, 2018, and have issued our report thereon dated October 1, 2018, 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 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
January 30, 2019

University of South Carolina
Schedule of Findings and Questioned Costs
For the year ended June 30, 2018

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>
84.007; 84.033; 84.038; 84.063; 84.268; 84.379; 84.408; 93.264; 93.342; 93.364	Student Financial Assistance Cluster
84.042; 84.044; 84.047; 84.127; 84.217	Trio Cluster

- | | |
|---|-------------|
| (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, 2018

II. Financial Statement Findings:

2018-001: Capital Assets

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

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.

Context: We noted the above condition while reviewing the financial statements and related note disclosures.

Effect: Capital asset related expenses were not properly classified on the Statement of Revenues, Expenses and Changes in Net Position and in the footnotes. This resulted in an audit adjustment reclassifying services and supplies and depreciation expense and a passed adjustment reclassifying services and supplies and loss on disposal of capital assets. In addition, prior year capital asset balances may have included assets that were no longer in service at the University.

Cause: Prior to fiscal year 2018, the University did not have adequate internal controls to ensure discrepancies in the annual physical count were properly recorded. In the current year, the Controller's Office recorded adjustments in the module but failed to identify the misclassifications that resulted.

Recommendation: We recommend that the University implement procedures to ensure that capital asset activity is properly monitored, recorded and reviewed throughout the year.

Views of responsible officials and planned corrective actions: Management agrees with the finding and recommendation. Management acknowledges the continued improvement in this area during this past fiscal year, but additional controls are needed to ensure asset activity is properly monitored and recorded timely.

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

Criteria: Generally accepted accounting principles (GAAP) requires that funds due from (held for) others be accurately recorded in the financial statements.

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.

2018-002: Funds Due From (Held For) Others, Continued

Context: We noted the above condition while reviewing the financial statements.

Effect: Funds due from (held for) others were not properly classified on the Statement of Net Position. This resulted in a passed adjustment reclassifying funds due from others, funds held for others, noncurrent restricted cash and deposits.

Cause: Agency accounts that result in funds due from (held for) others at year-end were not properly mapped to the financial statements in University's general ledger system.

Recommendation: We recommend that the University remap all agency accounts to ensure that funds due from (held for) others are properly presented in the financial statements at year-end.

Views of responsible officials and planned corrective actions: Management acknowledges this finding and will ensure a review of the mapping for agency accounts is completed.

2018-003: Grants

Criteria: 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. 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.

Context: We noted the above conditions a and b while testing federal grant revenue and performing the single audit. Condition c was identified over the last year as a part of the Controller's Office Grants and Funds Management cleanup project. Details of the cleanup project were provided to Audit and Advisory Services during an internal review of Grants Accounting which includes Grants and Funds Management.

Effect: The following effects were considered based on the above conditions:

- a. Federal grant revenue was overstated by approximately \$8 million. This revenue should have been recognized in prior years and part of beginning net position. This was included as a passed adjustment from a prior year finding (2016-002).

University of South Carolina

Schedule of Findings and Questioned Costs

For the year ended June 30, 2018

2018-003: Grants, Continued

- b. The SEFA was understated by approximately \$2.8 million. In addition, we had to revise our major program determination for each new version provided. The final version resulted in identification of a new major program whose previously reported expenditures were below the Uniform Guidance Type A threshold.
- c. The Controller's Office is in process of fully reconciling all individual grant awards. At this time, the Controller's Office estimates approximately \$2.5 million of uncollectible grant receivables. Of this \$2.5 million, \$1.5 million was related to untimely billing and invoicing errors. The balance was related to sponsor bankruptcy and refusal to pay (\$426k), federal reporting errors (\$110k), and project reconciliations and conversions to PeopleSoft (\$489k).

Cause: Upon implementation of the University's new general ledger system, PeopleSoft, the Grants and Funds Management Department did not adequately setup nor use PeopleSoft to ensure all grant activity would be recorded, reconciled and billed in a timely manner. Certain grant awards went unbilled and unreconciled for an extended period of time. In addition, year-end procedures performed by the Controller's Office did not properly recognize federal grant revenue or accurately prepare the SEFA in accordance with the Uniform Guidance.

Recommendation: We recommend that the Controller's Office continues to investigate and correct all unreconciled grant awards and establish procedures to ensure timely reconciliations are performed going forward. Furthermore, the Controller's Office should establish review procedures to ensure federal grants are properly recognized in the financial statements and reported accurately on the SEFA.

Views of responsible officials and planned corrective actions: Management agrees with the finding and recommendation. Management acknowledges the continued improvement in this area during this past fiscal year. Additional procedures, processes and controls are being developed to ensure grant activity is properly monitored and recorded timely and accurately.

University of South Carolina

Schedule of Findings and Questioned Costs

For the year ended June 30, 2018

III. Federal Award Findings and Questioned Costs:

Finding 2018-004 Student Financial Aid Administration

Federal Agency: Department of Education

Program: Federal Perkins Loan Program (CFDA 84.038)

Criteria or Specific Requirement: Student financial aid administration includes the following compliance requirements:

- A. 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)).
- B. For students with Perkins loans, the separation date submitted to ECSI, the University's third-party loan servicer, should agree to the separation date reported to the National Student Loan Data System (NSLDS) based on guidance published in the NSLDS Enrollment Reporting Guide.

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.

Context: Context for the conditions noted above are as follows:

- A. Approximately 777 students who had received Perkins loans entered repayment during the period July 1, 2017 through June 30, 2018. Of these students, we examined 25 students' files and determined the following:
 - For two students who dropped below half-time enrollment prior to graduation, the separation date the University reported to ECSI was the students' graduation date rather than the date the students ceased to be at least half-time regular students (this resulted in a two month delay in the repayment start date).
 - For one student who graduated on August 9, 2014, the University did not report the student as separated until the prior year finding 2017-001 was communicated to the University (this resulted in a 35 month delay in the repayment start date).

University of South Carolina

Schedule of Findings and Questioned Costs

For the year ended June 30, 2018

Finding 2018-004, Continued

- For one student, the University incorrectly reported the separation date to NSLDS as the semester term end date instead of the actual date of withdrawal; this withdrawal was not reported to ECSI until the prior year finding 2017-001 was communicated to the University (this resulted in a ten month delay in the repayment start date).
 - For one student, the University incorrectly reported the separation date to NSLDS and ECSI as the semester term instead of the actual date of withdrawal (this resulted in a three month delay in the repayment start date).
 - For one student, the University incorrectly reported the separation date to ECSI as the student's graduation application date instead of the student's actual graduation date (this resulted in the student's loan converting to repayment one month earlier than required under the regulations).
 - For one student who graduated from the University's Law School, but remained a full-time student while completing a Master's Degree after graduating from the Law School, the University incorrectly reported the student's separation date to ECSI as the Law School graduation date. The University should have reported the student's separation date as the graduation date from the Master's program (this resulted in the student's loan being converted to repayment seven months earlier than required under the regulations).
- B. From the sample of 25 students tested in "A", we discovered inconsistencies between the separation dates reported by the University to ECSI and to the NSLDS for 13 students. Differences in dates ranged from 9 days to 19 days. This is a repeat finding from prior year (2017-001).

Questioned Costs: \$0

Effect: The effect of the conditions noted above are as follows:

- A. The students' loans were converted to repayment later or earlier than required or were not converted to repayment at all. For the loans we tested, the repayment start dates were delayed by two to 35 months or accelerated one to seven months. These errors had no impact on the total repayment cost of the loans.
- B. The University is not in compliance with reporting requirements. However, because the third party loan servicer sets the beginning of the grace period as the first day of the subsequent month after the separation date, the inconsistencies found between the separation dates reported to ECSI and the NSLDS had no impact on the repayment period. Additionally, there was no impact on the total repayment cost of the loans.

Finding 2018-004, Continued

Cause: The cause of the conditions noted above are as follows:

- A. 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.
- B. The University was unaware of the NSLDS reporting requirements regarding consistency in the separation dates reported to ECSI and NSLDS.

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. Procedures should also 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. 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. Management will conduct additional reviews to identify the cause of the lag time between ECSI and NSLDS. Management will work with the Registrar's Office and 3rd party vendors to ensure the issues are resolved.

University of South Carolina

Schedule of Findings and Questioned Costs

For the year ended June 30, 2018

Finding 2018-005

Verification

Federal Agency: Department of Education

Program: Student Financial Aid Cluster

Criteria or Specific Requirement:

An institution must verify applications selected by the Central Processing System (CPS) who will receive or have received subsidized student financial assistance by obtaining documentation to supporting the information provided in accordance with 34 CFR 668.51-61.

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

Context: From a population of 5,824 students that received federal assistance and were selected for verification, 25 students were selected for testing. The total amount of Pell Grants awarded to the students in our population was \$93,828. For one selection, the student's adjusted gross income (AGI) and household size in Banner did not agree with the AGI and household size on the verification support provided.

Questioned Costs: \$4,970

Effect: As a result of the incorrect AGI in Banner, the student's expected family contribution (EFC) was understated causing him to appear eligible for the \$4,970 of Pell Grants that he received. Using the correct AGI, the student is not eligible for a Pell Grant.

Cause: The original Free Application for Federal Student Aid (FAFSA) that the student submitted was flagged for verification and also contained incomplete signatures. As a result, multiple versions of the FAFSA were created for verification corrections and signatures. The FAFSA without the verification corrections was set as the primary FAFSA to award upon.

Recommendation: We recommend that the University strengthen its controls around the verification process to ensure that the correct FAFSA with verified information is used to determine financial aid.

Management Response and Corrective

Action Plan: USC Columbia management agrees with this finding. When this finding was initially shared with management in June 2018, a new quality control report was put in place in order to identify any future occurrences of the unique series of events that resulted in this particular finding.

University of South Carolina

Schedule of Findings and Questioned Costs

For the year ended June 30, 2018

Finding 2018-006 Borrower Data Transmission (COD Reporting)

Federal Agency: Department of Education

Program: Student Financial Aid Cluster

Criteria or Specific Requirement: As defined in 34 CFR 668.164(a), the disbursement date is the date that school credits a student's account at the school or pays a student or parent borrower directly with Title IV funds received from the Department of Education or with institutional funds in advance of receiving Title IV program funds. This is the date that the school must report to the Common Origination and Disbursement (COD) system as the actual disbursement date for a Direct Loan, as distinguished from the anticipated disbursement date.

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

Context: From a population of 28,879 students that received federal assistance, 40 students were selected for COD reporting testing. For one selection, the student's disbursement date in COD (August 30, 2017) was 83 days prior to the date funds were actually disbursed (November 21, 2017).

Questioned Costs: \$0

Effect: The student's loan was accruing interest based on the date reported to COD (August 30, 2017) which was 83 days longer than it should have been.

Cause: The student's loan had a scheduled disbursement date of August 30, 2017, however, the student did not complete their Master Promissory Note until November 21, 2017, which prevented the loan from being disbursed. The University did not update the anticipated disbursement date in COD with the actual disbursement date.

Recommendation: We recommend that the University implement procedures to ensure that the anticipated disbursement date in the COD system is updated for the actual disbursement date.

Management
Response and
Corrective

Action Plan: USC Upstate management agrees with the finding that the date should have been the date the funds were paid to the student's account. We will implement procedures to ensure that the anticipated disbursement date in the COD system is updated for the actual disbursement date. The Loan Rejection reports are monitored by our Loan Counselors and if the loan is rejected due to an incorrect loan origination fee, our process to correct this is to cancel the original loan and re-originate the loan with the correct fee amount. This process creates a new disbursement date different from the original loan disbursement date, and allows the loan to be accepted by COD, with the correct origination fee amount.

University of South Carolina

Schedule of Findings and Questioned Costs

For the year ended June 30, 2018

Finding 2018-007 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 2017-2018 FISAP instructions for the 2016-2017 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, 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

Questioned Costs: \$0

University of South Carolina

Schedule of Findings and Questioned Costs

For the year ended June 30, 2018

Finding 2018-007, Continued

Effect: Although this finding has no current year impact on funding, errors in the amounts reported on the FISAP results in noncompliance and inhibits the ability of the Department of Education to properly monitor and evaluate the performance of the campus-based programs. The lack of internal controls over the FISAP preparation and review process could result in misstated line items that do impact the amount of funding awarded to the University.

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.

Recommendation: We recommend that procedures be implemented and internal controls strengthened to ensure that the information on the FISAP is accurately reported in accordance with the FISAP instructions and agrees to the University's records.

Management Response and Corrective Action Plan:

Management's response included the following:

- a. USC Columbia management agrees with this finding. The FISAP policy and procedures have been updated to exclude SC Need-Based Grants from this line item total. The most recent FISAP was completed under this new policy, with SC Need-Based Grant funds excluded.
- b. USC Aiken management agrees with this finding. The FISAP for award year 2016-2017 was submitted with the error in October 2017 during a time when the USC Aiken Office of Financial Aid did not have a Director. 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. USC Beaufort management agrees with this finding. 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. In the future, the completed FISAP will be reviewed by the Beaufort campus Controller prior to submission.
- d. USC Upstate management agrees with this finding that the Teaching Fellows amount should have been included, based on the FISAP instructions. We will include the Teaching Fellows in the amount on the next FISAP. In the future, the completed FISAP will be reviewed by the Upstate campus Vice Chancellor – Finance and Administration prior to submission.
- e. USC Regional management agrees with this finding. 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. In the future, the completed FISAP will be reviewed by the Director of the Palmetto College Financial Aid Office.

University of South Carolina

Schedule of Findings and Questioned Costs

For the year ended June 30, 2018

Finding 2018-008	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, an Institution of Higher Education must maintain a drug prevention program and distribute this policy in writing to all employees and students annually. Additionally, the program must be reviewed biennially by the institute to (1) determine its effectiveness and implement changes to the program if they are needed; and (2) ensure that the applicable disciplinary sanctions are consistently enforced.
Condition/Context:	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.
Questioned Costs:	\$0
Effect:	The University is not in compliance with 34 CFR 86.100. Failure to comply with federal standards could ultimately result in the University being ineligible to receive federal funds.
Cause:	The University was unaware of this requirement.
Recommendation:	Procedures should be implemented and enforced to ensure that the biennial reviews of the drug and alcohol abuse prevention program are performed in a timely manner and policies are made available to employees and students in accordance with 34 CFR 86.100.
Management Response and Corrective Action Plan:	Management acknowledges this finding and will work with our Human Resources Department to implement procedures to ensure that biennial reviews of the Drug and Alcohol Abuse Prevention program are performed in a timely manner and to ensure that the policy is made available to all University employees and students.

University of South Carolina

Schedule of Findings and Questioned Costs

For the year ended June 30, 2018

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

Federal Agency: Department of Education

Program: TRIO Upward Bound (CFDA 84.047)

Criteria or Specific Requirement: The TRIO Upward Bound Program requires institutions to provide specific services to participants. Programs that have received funding for at least two years must provide core curriculum class instruction in mathematics through pre-calculus, laboratory science, foreign language, composition, and literature in the next and succeeding years. (34 CFR section 645.11b)

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.

Context: The University has received TRIO funding in excess of two years and is required to provide stated core curriculum classes in each year after the two years of funding have been completed. Per review of supporting documentation and inquiry of program personnel, it was discovered that core curriculum classes in laboratory science were not offered or provided in academic year 2016-2017 and 2017-2018 by the Upward Bound program on the Columbia campus.

Questioned Costs: \$0

Effect: The absence of core curriculum requirements resulted in noncompliance of the stated program requirement. Noncompliance with program requirements could ultimately result in the University being ineligible to receive program funds.

Cause: When the University received the grant, TRIO personnel on the Columbia campus were asked by Richland School District One to assist them by focusing on improving mathematics and literature performance of the students involved.

Recommendation: We recommend that the University implement policies and procedures to ensure that all required core curriculum courses be offered to all Upward Bound participants across all campuses.

Management
Response and
Corrective

Action Plan: USC Columbia TRIO management agrees with this finding. Corrective action will include offering the required core courses to participants during the academic and/or summer component. Program personnel will recruit and hire instructors to teach the required core courses. Management will review a listing of hired instructors and courses prior to the start of the academic and summer components.

University of South Carolina

Schedule of Findings and Questioned Costs

For the year ended June 30, 2018

Finding 2018-010 **TRIO – Earmarking**

Federal Agency: Department of Education

Program: TRIO Student Support Services (CFDA 84.042)

Criteria or Specific Requirement: Each TRIO program has specific earmarking requirements that must be met. Per 34 CFR 646.11, the Student Support Services (SSS) program requires that at least two-thirds, or approximately sixty-seven percent, of the individuals served by a SSS program must be low-income individuals who are first-generation college students or individuals with disabilities. Additionally, not less than one-third of the individuals with disabilities must also be low-income individuals.

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.

Context: The SSS program on the Salkehatchie campus served a total of 214 students, of which 122 were low-income individuals who are first generation college students or individuals with disabilities. This ratio of 57.01% does not meet the stated two-thirds requirement. Additionally, none of the three participants with disabilities were also low-income individuals, which also does not meet the requirement.

Questioned Costs: \$0

Effect: The program did not satisfy earmarking requirements for the reporting period ended August 31, 2017. Noncompliance with program requirements could ultimately result in the University being ineligible to receive program funds.

Cause: The Salkehatchie SSS program was under the impression that these percentages were calculated using the number of individuals the program is funded to serve instead of the total number of individuals actually served.

Recommendation: We recommend that participant data be consistently reviewed to ensure that stated earmarking requirements are satisfied.

Management
Response and
Corrective

Action Plan: USC Salkehatchie management agrees with this finding. We have addressed the finding by revisiting the files of the disabled students to confirm their status. We have also connected with the campus' disability office to ensure that we are serving disabled students enrolled at USC Salkehatchie. We will monitor the students accepted to ensure enough low-income first-generation individuals are participating in the program to meet earmarking requirements.



Vice President for Finance &
Chief Financial Officer

University of South Carolina

Summary Schedule of Prior Audit Findings For the year ended June 30, 2018

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:

2017-001: Student Financial Aid Administration

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

- A. The University did not communicate withdrawal dates or dates students ceased to be at least a half-time regular student to ECSI in a timely manner.
- B. There were inconsistencies between graduation dates reported to ECSI and to the SLDS by the University.
- C. The University incorrectly reported withdrawal dates for students who received Title IV aid to the NSLDS.

Current Action Taken/Current Status: This finding has been cleared.

The University Bursar's Office no longer sends manual graduation reports. 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. Management will conduct additional reviews to identify the cause of the lag time between ECSI and NSLDS.

2016-002: Grants Revenue and Accounts Receivable

Condition: The University misstated amounts on FISAP reports for the Beaufort and Upstate campuses. On the Assessments and Expenditures portion of the Beaufort FISAP, the total amount expended for state grants and scholarships made to undergraduates for the award year July 1, 2015 to June 30, 2016 was listed as zero, however the actual amount expended was approximately \$2.7 million. On the Assessments and Expenditures portion of the Upstate FISAP, the amount reported as total tuition and fees for the award year July 1, 2015 to June 30, 2016 was understated by approximately \$10 million.

Current Action Taken/Current Status: This finding has been cleared.

On the FISAP reports for award year 2017-2018 for the Beaufort and Upstate campuses the correct amounts were reported for state grants and scholarships as well as tuition and fees.