March, 2018 Awards

Administration & Finance

Admin. & Finance

Hardaway, Chad

State SBIR/STTR Program - 15510-GL00 200,000

Sponsor: SC Department of Commerce

Co-PI:

Arnold School of Public Health

Environmental Health Sciences

Porter, Dwayne

Continuing Support of the NERR Centralized Data Management Office - 21600-FC69 4,500

Sponsor: National Oceanic & Atmospheric Administration (NOAA)/DOC

Co-PI:

Epidemiology & Biostatistics

Liese, Angela

SEARCH Nutrition Ancillary Study 2 (SNAS2) - 11520-FB64 26,291

Sponsor: The University of North Carolina, Chapel Hill/NIH

Co-PI:

Nolan, Melissa

Health Outcomes Evaluation of Children with Gastrointestinal Parasitic - Chagas 26,750

Disease Co-Infection - 11520-KA38

Sponsor: Thrasher Research Fund

Exercise Science	
Carson, James	200 000
Cachexia in ApcMin/+ mice: The role of IL-6 - 11530-FB02	266,996
Sponsor: National Cancer Institute (NCI)/NIH	
Co-PI: Murphy, Elizabeth Pena, Maria	
Cachexia in ApcMin/+ mice: The role of IL-6 - (Supplement for Kandy Tawany Velazquez) - 11530-FB18	-53,010
Sponsor: National Cancer Institute (NCI)/NIH	
Co-PI: Murphy, Elizabeth Velazquez, Kandy	
Down Elizabeth	
Regan, Elizabeth Integrating Stroke Survivors into Cardiac Rehabilitation: Exploring Effectiveness,	15,000
Feasibility, Physical Therapist Involvement and Policy Implications - 11530-KA68	15,000
Sponsor: American Physical Therapy Association - Health Policy and Administration Section	
Co-PI:	
Thigpen, Charles	
Prospective Study of PT-First Clinical Pathway for Musculoskeletal problems of the	100,000
Should, Spine, and Knee - 11530-KA67	100,000
Sponsor: Foundation for Physical Therapy, Inc	
Co-PI:	
Health Prom., Educ. & Behavior	
Frongillo, Edward	
Output-to-Purpose Review of Nutrition International's Infant and Young Child Feeding Programs - 11540-KA68	36,346
Sponsor: Nutrition International	
Co-PI:	
Meetze, Edena	
Cuidate Program - 11500-KL64	6,170
Sponsor: AIDS Benefit Foundation of South Carolina	3,
Co-PI:	

Thrasher, James	
The Impact of Tobacco Control Policies on Health Equity in the United States - 11540-FA91	33,213
Sponsor: University of Michigan/NIH Co-PI:	
Predicting menthol cigarette and flavored cigar smokers' responses to menthol or flavored tobacco restrictions: results from experimental auctions - 11540-FA92	7,340
Sponsor: Truth Initiative Foundation/NIH Co-PI:	
Pilot Award: Cross-validation of auction modalities to assess demand for emerging nicotine products - 11540-LA08	24,997
Sponsor: University of Waterloo Co-PI:	
Health Services Policy & Mgmt Crouch, Elizabeth	
Duke LARC - 11550-KA21	35,489
Sponsor: South Carolina Campaign to Prevent Teen Pregnancy/The Duke Endowment Co-PI:	
Ostermann, Jan	
Subaward: Investigating Febrile Deaths In Tanzania (INDITe) - 11550-FA68	1,950
Sponsor: Duke University/NIH Co-PI:	
Public Health - Dean's Office	
Gillam, Pamela QI TA for SCDHEC's Perinatal and Infant Oral Health Quality Improvement Expansion Grant - 11580-FL28	-1,953
Sponsor: SC Department of Health and Environmental Control (DHEC)/HRSA Co-PI:	
Martin, Maria	
Connections for Healthy Babies - 11500-KL65	31,000
Sponsor: March of Dimes of South Carolina Co-PI:	

March, 2018 Awards

Smithwick, Julie PASOs' Choose Well proposal - 11500-KL52 97,205 Sponsor: Private Foundation Co-PI: **College of Arts and Sciences** Archaeology & Anthropology Smith, Karen Archaeological Surveys at Laurens, Hartsville, and Myrtle Beach Facilities, and the 7,000 SCIF Site at McEntire Air National Guard Station, 2018 - 21300-FL21 Sponsor: Office of the Adjutant General/DOD Co-PI: Baruch Institute Quattro, Joseph Innovative Fish Ageing Methods for Rapid Detection of Climate-Driven Changes in 9,256 Population Demography - 21600-FC77 Sponsor: SC Sea Grant Consortium Co-PI: Smith, Erik Relating Nonpoint Source BOD Loading to Land-Use and Stormwater Management 10,369 Practices in Coastal South Carolina - 21600-FC78 Sponsor: SC Sea Grant Consortium/NOAA Co-PI: **Biological Sciences** Chen, Hexin Emodin as a Chemopreventive Agent for Breast Cancer - 13010-FC64 16,020 Sponsor: National Cancer Institute (NCI)/NIH Helmuth, Brian Physiological Impacts of Climate Change Using Remote Sensing - 13010-FB98 3 Sponsor: National Aeronautics & Space Administration (NASA)

Pinckney, James	
Development of Models for Pyhtoplankton-Nutrient Responses in Support of Numeric Nutrient Criteria for Estuarine Water Quality - 21600-FC79	10,600
Sponsor: SC Sea Grant Consortium/NOAA Co-PI:	
Smith, Terika	
Examining mRNA Localization in Central Sensory Axons after Peripheral Nerve Injury - 13010-FC63	93,641
Sponsor: National Institute of Neurological Disorders and Stroke (NINDS)/NIH Co-PI:	
Twiss, Jeff	
Intersection of Epigenetic Regulation and Mitochondrial Function in Autism - 13010- GA06	150,000
Sponsor: SC EPSCoR/IDeA Co-PI:	
Chemistry & Biochemistry Shustova, Natalia	
Metal-Organic-Framework Glasses as Radioactive Contaminant Sequesters and Nuclear Waste - 13020-FD08	24,900
Sponsor: Savannah River National Laboratory/DOE Co-PI:	
Earth & Ocean Sciences Lakshmi, Venkataraman	
Improved Hydrologic Decision Support for the Lower Mekong River Basin Through Integrated Remote Sensing and Modeling - 21610-FA03	49,992
Sponsor: National Aeronautics & Space Administration (NASA) Co-PI:	
Owens, Thomas	
Operation of the Mid-America Integrated Seismic Network – 2015-2019 - USC - 13040-FL08	79,976
Sponsor: U.S. Geological Survey (USGS)/DOI Co-PI:	

March, 2018 Awards

	Env. &	Sustainabilit	v Program
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Pournelle, Jennifer

The Aerial Photography of Qatar - 10060-KA06

5,100

Sponsor: UCL Qatar/ Qatar National Research Fund (QNRF) - NATIONAL

PRIORITY RESEARCH PROGRAM

Co-PI:

Geography

Wang, Cuizhen (Susan)

Satellite Observations of Marsh Dieback Events and Potential Environmental

24,981

Influences along Coastal SC, 2000-2017 - 13540-FB47

Sponsor: College of Charleston/NASA EPSCoR

Co-PI:

Mathematics

Boylan, Matthew

Number Theory Meetings in the Southeast - 13060-FA93

14,980

Sponsor: National Science Foundation (NSF)

Co-PI:

Wang, Hong

Fractional PDEs for Conservation Laws and Beyond: Theory, Numerics and

Applications - 21400-FA34

38,090

Sponsor: Brown University/ONR

Co-PI:

McKissick Museum

Taylor, Saddler

Swag & Tassel: The Innovative Stoneware of Thomas Chandler - 34000-FA19

7,000

Sponsor: South Carolina Humanities/NEH

Psychology Roberts, Jane	
Emergence and Stability of Autism in Fragile X Syndrome - 13580-FB39	550,914
Sponsor: National Institute of Mental Health (NIMH)/NIH	
Co-PI: Richards, John Shinkareva, Svetlana Hills, Kimberly	
Exposure and Emotion Regulation as Predictors of Adjustment to Trauma - 13580- FB40	30,000
Sponsor: University of Kansas Center for Research, Inc./NIMH Co-PI:	
Weist, Mark	
South Carolina School Behavioral Health Alliance - 13580-FL25	274,944
Sponsor: SC Department of Education, Office of Special Services/USDE Co-PI:	
Sociology Pfeffer, Carla	
Pregnant Men: An International Exploration of Trans Male Practices of Reproduction - 13530-LA00	32,132
Sponsor: Economic and Social Research Council (ESRC), UK Co-PI:	
Statistics Sims, Wilma	
Stat Lab Statistical Analysis of SE Healthcare Quality Consulting Patient Survey 2018 - 13080-LL00	1,800
Sponsor: SE Healthcare Quality Consulting Co-PI:	
Wang, Lianming	
Emodin as a Chemopreventive Agent for Breast Cancer - 13080-FA35	8,010
Sponsor: National Cancer Institute (NCI)/NIH Co-PI:	

March, 2018 Awards

College of Education

Instruction & Teacher Educ.

Googe, Heather

Building a Statewide System for Inclusion 2017-18 - 15220-FJ07 132,266

Sponsor: SC Department of Social Services(DSS)/HHS

Co-PI:

Determining the Prevalence of Suspension and Expulsion Practices in Child Care 15,759
Settings in South Carolina - 15220-LA00

Sponsor: Institute For Child Success

Co-PI:

Rao, Vasanthi

Management & Administration of the Child Care Resource and Referral Network 2017- 90,163

2018 - 15220-FL05

Sponsor: SC Department of SocialServices (DSS)/HHS

Co-PI:

Roy, George

Center of Excellence for the Advancement of the Workforce and Knowledge Economy 135,000 (AWAKE) in South Carolina Middle Grades Schools - 15250-GL44

Sponsor: SC Commission on Higher Education

Co-PI:

SC School Improvement Council

Hudson, Tom

SC Education Policy Fellowship Program - 15280-KJ01 7,350

Sponsor: SC Education Policy Fellowship Program Advisory Board

March, 2018 Awards

College of Engineering & Comp.

Chaminal	Engineering
Cnemicai	Enaineerina

Lauterbach, Jochen

A Novel Hollow Fiber Membrane Reactor for High Purity H2 Generation from Thermal 333,064
Catalytic NH3 Decomposition - 15510-FD02

Sponsor: Rensselaer Polytechnic Institute (RPI)/ARPA-E/DOE

Co-PI:

Mustain, William

Transitioning AI@Zn Anodes from Successful Concept to Real Applications - 15510-JB33 80,000

Sponsor: Duracell

Co-PI:

Ritter, James

Development of a TSA Process for CO2 Removal Using a Structured 13X Adsorbent: 105,600 Part III - 15510-FD04

Sponsor: Jacobs Engineering/NASA

Co-PI:

Computer Science & Engineering

Tong, Yan

WORKSHOP: Doctoral Consortium at the IEEE International Conference on
Automatic Face and Gesture Recognition (FG 2018) - 15590-FJ02

Sponsor: National Science Foundation (NSF)

Co-PI:

Electrical Engineering

Benigni, Andrea

Test Bench Development and Proof of Concept for Residential Isolated DC Micro-grid 547,400 Concept. - 15530-JA49

150,000

Sponsor: Emera Technologies, LLC

Co-PI:

Test Bench Development and Proof of Concept for Residential Isolated DC Micro-grid Concept. - (Equipment Only) - 15530-JA50

Sponsor: Emera Technologies, LLC

Dougal, Roger GRAPES Industry University Collaborative Research Center - (Administration Account) - 15530-JA23 Sponsor: Various Sponsors Co-PI:	1,999
Mechanical Engineering Besmann, Theodore Framework for a Molten Salt Reactor Thermochemical Database, Formalisms, and Tabulated Systems of Interest - 15540-FD72 Sponsor: UT-Battelle, LLC/Oak Ridge National Laboratory/DOE Co-PI:	20,000
Dryer, Frederick FLEX-2 Augmentation Investigation - 15540-FD54 Sponsor: National Aeronautics & Space Administration (NASA) Co-PI:	24,000
Farouk, Tanvir Effect of External Thermo-Convective Perturbation on Cool Flame Dynamics: A Multidimensional Multi-Physics CFD Analysis - 15540-FD35 Sponsor: National Aeronautics & Space Administration (NASA) Co-PI:	43,000
Huang, Xinyu Coating Porous Substrate for Hydrogen Pump - 15540-JL12 Sponsor: Sustainable Innovations, Inc. Co-PI:	5,860
Knight, Travis Formation and Removal of Oxyhydroxides on Aluminum Spent Nuclear Fuel - 15540-FD73 Sponsor: Savannah River National Laboratory/DOE Co-PI:	50,000

March, 2018 Awards

Won, Sang Hee

Experimental and Numerical Studies on Gasoline Fuel Properties Related with Low-Speed Pre-Ignition Behavior - 15540-JA96 80,000

Sponsor: Hyundai-Kia America Technical Center

Co-PI:

College of Nursing

Nursing

Pinto, Bernardine

A "Novel" Multi-Component Approach to Promote Physical Activity among Older Cancer Survivors - 11200-LA02

19,818

Sponsor: Greenville Health System (GHS)

Co-PI:

Starnes-ott, Kristen

University of South Carolina College of Nursing Future of Nursing Scholars Proposal - 11200-KX00 150,000

Sponsor: Robert Wood Johnson Foundation

Co-PI:

College of Pharmacy

Drug Discovery & Biomedical Sciences

Shtutman, Michael

Functional Identification of New Mechanisms of Neurotoxicity Induced by HIV and Drugs of Abuse - 11110-FA88

131,850

Sponsor: National Institute on Drug Abuse (NIDA)/NIH

Co-PI:

Turner (Ortinski), Jill

Dynamic Signaling of NRG3-ErbB4 in the Hippocampus Mediates Nicotine Withdrawal Phenotypes - 11110-FA99

357,919

Sponsor: National Institute on Drug Abuse (NIDA)/NIH

Zhu, Jun	
Molecular mechanisms: Dysregulation of monoamine transporters by HIV-1 Tat and cocaine - 11110-FA98	537,119
Sponsor: National Institute on Drug Abuse (NIDA)/NIH Co-PI:	
Pharm - Clin Pharm & Outcomes Sciences Bookstaver, Brandon	
South Carolina Antimicrobial Stewardship & Resistance Prevention Network (SCARPS) - 11150-FL09	162,659
Sponsor: SC Department of Health and Environmental Control (DHEC)/HHS Co-PI:	
Fabel, Patricia	
Evaluation of Enhanced Community Pharmacy Services - 11150-KA27	50,733
Sponsor: Community Pharmacy Foundation Co-PI:	
College of Social Work	
Families in Society, Institute for Shapiro, Cheri	
Using Data-Driven Methods to Understand and Impact Youth and Family Needs for the South Carolina Department of Juvenile Justice - 10010-GA08	161,871
Sponsor: SC Department of Juvenile Justice Co-PI:	
Social Work - Dean's Office Wooten, Nikki	
Behavioral Health Care in Army Warrior Transition Units - 15900-FA40	144,703
Sponsor: National Institute on Drug Abuse (NIDA)/NIH Co-PI:	

March, 2018 Awards

Hosp., Retail, & Sport Mgmt

Retailing

Bickle, Marianne

The Tiger Sports Shop - Analysis of Web Analytics and Fulfillment - 14010-JA03

13,070

Sponsor: The Tiger Sport Shop

Co-PI:

School of Medicine

Basic Science Research

Turley, Christine

TRANSFORM-SC Addendum ACT NOW - 18090-FA07

93,260

Sponsor: University of Arkansas for Medical Sciences (UAMS)/NIH

Co-PI:

Cell Biology & Anatomy

Azhar, Mohamad

Analysis of TGFBeta Ligands Function in Heart Development and Disease - 18020-

327,075

Sponsor: National Heart, Lung & Blood Institute (NHLBI)/NIH

Co-PI:

Carver, Wayne

Data-driven optimization of bioengineered vascular scaffolds as an advanced material 150,000 for small diameter blood vessel replacement - 18020-GA03

Sponsor: South Carolina EPSCoR

Co-PI:

Cui, Taixing

A Novel Approach for Transforming Decellularized Vessel Grafts into Small-Diameter Arteries - 18020-FB56 20,025

Sponsor: National Institute of Biomedical Imaging and Bioengineering (NIBIB)/NIH **Co-PI:**

March, 2018 Awards

Eberth, John

Theranostic approach to treat abdominal aortic aneurysms - 18020-FB61

30,000

Sponsor: Clemson University/NIH

Co-PI:

Fan, Daping

Emodin as a Chemopreventive Agent for Breast Cancer - 18020-FB65

225,664

Sponsor: National Cancer Institute (NCI)/NIH

Co-PI:

Family & Preventive Medicine

Bennett, Kevin

Catawba CMHC/Community Medicine Foundation Primary Care Initiative - 18130-

17,327

FA35

Sponsor: Upper Midlands Rural Health Network/SCDMH/HHS

Internal Medicine Albrecht, Helmut	
Randomized Trial to Prevent Vascular Events in HIV – REPRIEVE - 18190-FA12	2,248
Sponsor: Hospital Corporation d/b/a Massachusetts General Hospital/NIH Co-PI:	
Protocol GS-US-380-1489, "A Phase 3, Randomized, Double-Blind Study to Evaluate the Safety and Efficacy of GS-9883/ Emtricitabine/ Tenofovir Alafenamide 18190-JA88	982
Sponsor: Gilead Sciences, Inc.	
Co-PI:	
Protocol GS-US-380-1844, "A Phase 3, Randomized, Double-Blind Study to Evaluate the Safety and Efficacy of Switching from a Regimen of Dolutegravir and ABC/3TC 18190-JA90	2,808
Sponsor: Gilead Sciences, Inc.	
Co-PI:	
Protocol GS-US-380-1878: A Phase 3, Randomized, Open-Label Study to Evaluate the Safety and Efficacy of Switching from Regimens Consisting of Boosted Atazanavir or Darunavir plus 18190-JA91	3,800
Sponsor: Gilead Sciences, Inc.	
Co-PI:	
GS-US-380-4030 - "A Phase 3, Randomized, Double-Blind Study to Evaluate the Safety and Efficacy of Switching from a Regimen of Dolutegravir and Either Emtricitabine/Tenofovir Alafenamide or Emtricitabine/Tenofovir Disoproxil Fumarate to a Fixed Dose Combi	5,579
Sponsor: Gilead Sciences, Inc. Co-PI:	
Gripaldo, Ria	
A double blind, randomized, placebo-controlled trial evaluating the efficacy and safety of nintedanib over 52 weeks in patients with Progressive Fibrosing Interstitial Lung Disease (PF-ILD) - (Clinical Trial Protocol for BI Trial No. 1199.247) - 18190-	2,206
Sponsor: Palmetto Health/Boehringer Ingelheim Pharmaceuticals, Inc. Co-PI:	

March, 2018 Awards

Newsome, Brandi

A post-authorization Safety (PAS) Observational Cohort Study to Quantify the Incidence and Comparative Safety of Selected Cardiovascular and Cerebrovascular Events in COPD Patients Using Inhaled UMEC/VI Combination or Inhaled UMEC versus Tiotropium (Study

2,588

Sponsor: Outcomes Sciences, LLC/Glaxo Smith Kline **Co-PI:**

Rizvi, Ali

Systolic Blood Pressure Intervention Trial: Alzheimer's, Seniors, and Kidneys (SPRINT ASK) - 18190-FA13

12,976

Sponsor: Wake Forest University/ NIH

Ryan White Treatment Extension Act - Part B ADAP Insurance Assistance Program - 18190-FM42	110,000
Sponsor: SC Department of Health & Environmental Control(DHEC)/HRSA Co-PI:	
Ryan White HIV/AIDS Treatment Extension Act - Part B Base - 18190-FM45	10,000
Sponsor: SC Department of Health & Environmental Control (DHEC)/HRSA Co-PI:	
Ryan White HIV/AIDS Treatment Extension Act - Part B Emerging Communities - 18190-FM46	41,950
Sponsor: SC Department of Health & Environmental Control (DHEC)/HRSA Co-PI:	
Ryan White Treatment Extension Act - Part B ADAP Insurance Assistance Program - 18190-FM47	3,500,000
Sponsor: SC Department of Health & Environmental Control (DHEC)/HRSA Co-PI:	
Ryan White Part B HepDAP Rebates - 18190-LL09	54,000
Sponsor: SC Department of Health & Environmental Control (DHEC) Co-PI:	
Ryan White National HIV/AIDS Strategy (NHAS) Initiatives - 18190-LL10	98,000
Sponsor: SC Department of Health & Environmental Control (DHEC) Co-PI:	
Ryan White Part B Rebate Funds 2018-2019 - 18190-LL11	820,000
Sponsor: SC Department of Health & Environmental Control (DHEC) Co-PI:	
<i>urology</i> uturic, Miroslav	
Enroll-HD: A Prospective Registry Study in Global Huntington's Disease Cohort - 18450-KA02	10,040
Sponsor: CHDI Foundation Co-PI:	

Mrelashvili, Davit ESTEEM: A Multicenter, Global, Observational Study to Collect Information on Safety and to Document the Drug Utilization of Tecfidera (Dimethyl Fumarate) When Used in Routine Medical Practice in the Treatment of Multiple Sclerosis - 18450-JA14 Sponsor: Biogen Idec MA Inc. Co-PI:	4,340
Path, Microbio. & Immunology Bader, Jackie Macrophage-Microbiota Interactions in Colon Cancer - 18060-FB46	35,437
Sponsor: National Cancer Institute/NIH Co-PI:	
Kubinak, Jason Exploring how B cell Maturation Pathways Influence Microbiota Composition and Host Health - 18060-FB43	37,436
Sponsor: National Institute of Allergy & Infectious Diseases (NIAID)/NIH Co-PI: Murphy, Elizabeth Emodin as a Chemopreventive Agent for Breast Cancer - 18060-FB45 Sponsor: National Cancer Institute (NCI)/NIH Co-PI:	106,800
Pediatrics Rotholz, David High Impact Innovative Assistive Technology Grant - 18140-FQ00 Sponsor: Christopher & Dana Reeve Foundation/HHS Co-PI:	74,808
Pharm., Physiology & Neurology Mott, David Muscarinic Modulation of the Basolateral Amygdala - 18080-FA51 Sponsor: National Institute of Mental Health (NIMH)/NIH Co-PI: McDonald, Alexander	398,760

Reagan, Lawrence	
IPA from the VA for Dr. Chris Wood - 18080-FA64	38,418
Sponsor: WJB Dorn VA Medical Center/VA Co-PI:	
IPA for Dr. Claudia Grillo - 18080-FA69	15,568
Sponsor: WJB Dorn VA Medical Center/VA Co-PI:	
Wood, Susan	
Estrogen Mediated Mechanisms of Stress Susceptibility - 18080-FA75	417,927
Sponsor: National Institute of Mental Health (NIMH)/NIH Co-PI:	
Surgery Clair, Daniel	
Pilot Study for the LimFlow Stent Graft System - 18200-JA10	26,755
Sponsor: LimFlow, Inc. Co-PI:	
"Tack Optimized Balloon Angioplasty Clinical Trial for the Below the Knee Arteries Using the Tack Endovascular System (TOBA II – BTK)" (Protocol No. CA 0137) - 18200-JA12	500
Sponsor: Intact Vascular, Inc. Co-PI:	

March, 2018 Awards

University of SC Aiken

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Pirkle, William

Nuclear Forensics Graduate Fellowship Program - Formerly MUSC 166,517

- 17110-FA58

Sponsor: SC Universities Research Education Foundation/ Dept of Homeland Security

Co-PI:

Nuclear Energy Advisory Committee (NEAC) - 17110-FL49 90,009

Sponsor: SC Universities Research and Education Foundation/DOE

Co-PI:

Senn, Gary

Science and Technology Enrichment Program (STEP) - 17110-FL55 21,593

Sponsor: Savannah River Nuclear Solutions/DOE

Co-PI:

Science & Technology Enrichment Program (STEP) - 17110-KL09 48,000

Sponsor: National Audubon Society

Co-PI:

University of SC Beaufort

Beaufort - Academic Affairs

Montie, Eric

Assessing Disturbance from the Charleston Harbor Deepening Project on Bottlenose 96,447

Dolphins - 17210-KA20

Sponsor: South Carolina Aquarium

March, 2018 Awards

Vice President for Research

EPSCoR

Aziz, Nadim

FY16 SC EPSCoR Appropriation - 22400-GA32

-1,066,286

Sponsor: SC EPSCoR/IDeA/SC Commission on Higher Education (CHE)

Co-PI:

EPSCoR Stimulus Research Program - 22400-GA36

300,000

Sponsor: SC EPSCoR/SC Commission on Higher Education

Co-PI:

Report Total: \$12,212,752