

**Office of Research**  
**IT and Data Management Office**

December, 2018 New Awards

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**Arnold School of Public Health**

***Environmental Health Sciences***

**Xiao, Shuo**

*Development of a High-Throughput Platform for Screening Ovotoxic Chemicals - 11510-FC05* 165,128

**Sponsor:** National Institute of Environmental Health Sciences (NIEHS)/NIH

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 486,984  
PROJECT\_YEARS: 3

***Epidemiology & Biostatistics***

**Liu, Jihong**

*Eliminating Disparities in Perinatal Health - 11500-FA83* 30,064

**Sponsor:** Palmetto Health Alliance/HRSA

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:  
PROJECT\_YEARS: 1

**Zhang, Jiajia**

*Research Agreement between BCBS and USC - 11520-FP00* 7,920

**Sponsor:** Blue Cross Blue Shield of SC/Palmetto GBA/HHS

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:  
PROJECT\_YEARS: 1

***Exercise Science***

**Fritz, Stacy**

*TRANScranial Direct Current Stimulation for Post-Stroke Motor Recovery - A Phase II Study (TRANSPORT 2) – Sub-Contract with MUSC - 11530-FB45* 52,989

**Sponsor:** Medical University of South Carolina (MUSC)/NIH

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 186,704  
PROJECT\_YEARS: 4

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**Health Services Policy & Mgmt**

**Radcliff, Elizabeth**

*MIECHV FY18 - 11500-FA82*

395,976

**Sponsor:** Children's Trust of South Carolina/HRSA

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 2

**Public Health - Dean's Office**

**Murday, David**

*The indirect costs of SCI in South Carolina due to lost earnings: Relationships with  
secondary health conditions and medical expenses  
- 11580-GA08*

16,012

**Sponsor:** MUSC/SC Spinal Cord Injury Research Fund/State of South Carolina

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 2

**Smithwick, Julie**

*PASOs Health Connections - 11500-KL69*

25,000

**Sponsor:** Palmetto Health- Office of Community Health

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

**Workman, Lauren**

*Understanding How State Level Leadership Influences Implementation of MIECHV: A  
Study of South Carolina's State Lead Agency - 11580-FA91*

137,122

**Sponsor:** Children's Trust of South Carolina/HRSA

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 2

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**College of Arts and Sciences**

**Archaeology & Anthropology**

**Stephenson, Donald**

*South Carolina Institute of Archaeology and Anthropology/Savannah River Archaeological Research Program Cooperative Agreement: United States Department of Energy for FY2019 - FY2023 - 21300-FB15* 100,000

**Sponsor:** United States Department of Energy/DOE

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 4,423,406  
PROJECT\_YEARS: 5

**Biological Sciences**

**Poulain, Fabienne**

*Role of proteoglycan-mediated trans-axonal signaling in pre-target topographic sorting - 13010-FC70* 391,187

**Sponsor:** National Institute of Neurological Disorders and Stroke (NINDS)/NIH

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 1,955,935  
PROJECT\_YEARS: 5

**Geography**

**Li, Zhenlong**

*Social Sensing of Disaster Extents and Impacts of Hurricane Florence - 13540-JA02* 5,000

**Sponsor:** Horne LLP

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:  
PROJECT\_YEARS: 1

**Physics & Astronomy**

**Schindler, Matthias**

*Fundamental symmetries and nucleon interactions - 13070-FB76* 20,354

**Sponsor:** Office of Energy-Department of Energy (DOE)

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:  
PROJECT\_YEARS: 3

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**College of Engineering & Comp.**

**Chemical Engineering**

**Mustain, William**

*Novel Anion Exchange Membranes for High-Performance Fuel Cell Devices - 15510-FD21* 20,000

**Sponsor:** Penn State/DOE

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:  
PROJECT\_YEARS: 2

**Weidner, John**

*Characterizing Volume Change at the Electrode Level Using Large Format Pouch Cells - 15510-JB42* 25,000

**Sponsor:** General Motors

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:  
PROJECT\_YEARS: 1

**Electrical Engineering**

**Chandrashekhhar, MVS**

*Doping cubic boron nitride, an extreme material for power electronics and radiation detection - 15530-FB92* 58,422

**Sponsor:** Morgan State University/NSF

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 177,598  
PROJECT\_YEARS: 3

**Mechanical Engineering**

**Besmann, Theodore**

*in situ Measurement and Validation of Uranium Molten Salt Properties at Operationally Relevant Temperatures - 15540-FD96* 79,688

**Sponsor:** University of Connecticut/DOE

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:  
PROJECT\_YEARS: 3

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**Huang, Kevin**

*High Temperature Ceramic-Carbonate Dual-Phase Membrane Reactor for Pre-Combustion Carbon Dioxide Capture - 15540-FD95*

141,934

**Sponsor:** Arizona State University/NETL-DOE

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 300,000

PROJECT\_YEARS: 3

**van Tooren, Michael**

*Composite Monocoque Design Study - 15540-JB07*

199,948

**Sponsor:** The Boeing Company

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

**Wang, Yi**

*Multi-objective Evolutionary Algorithms for Surrogate-based Optimization of Multi-disciplinary Guided Weapon Systems - 15540-FD97*

25,299

**Sponsor:** CFD Research Corporation/US Air Force

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

**College of Nursing**

**Nursing**

**McDonnell, Karen**

*Advancing Quality Lung Cancer Survivorship in South Carolina 2.0 - 11200-KA27*

261,689

**Sponsor:** Bristol-Myers Squibb Foundation

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

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**College of Pharmacy**

**Pharmacy - Dean's Office**

**Spies, Alan**

*Generation Rx: Community Project for Career Options for Health Professions course as part of SC AHEC - 11100-KJ00* 5,000

**Sponsor:** Medical University of SC (MUSC)/Duke Endowment

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

**College of Social Work**

**Social Work - Dean's Office**

**Rosemond, Tiara**

*Volunteer Retention Assessment Study - 15900-KL24* 86,415

**Sponsor:** National Court Appointed Special Advocate Association

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

**Darla Moore School of Business**

**Moore Sch - Dean's Office**

**Bliese, Paul**

*Threat monitoring and behavioral health throughout the deployment and career cycles: A translational study - 15000-FA08* 50,006

**Sponsor:** Univ of Tel Aviv/US Army Medical Research and Materiel Command

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 260,310

PROJECT\_YEARS: 5

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**Small Business Dev. Ctr.**

**Abraham, Michele**

*Office of Small Business Development Centers Program Announcement - 2019 (USC) - 21250-FM09* 112,690

**Sponsor:** US Small Business Administration (SBA)

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

*Office of Small Business Development Centers Program Announcement - 2019 (State Director's Office) - 21250-FM10* 90,152

**Sponsor:** US Small Business Administration (SBA)

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

*Office of Small Business Development Centers Program Announcement - 2019 (Winthrop) - 21250-FM11* 90,152

**Sponsor:** US Small Business Administration (SBA)

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

*Office of Small Business Development Centers Program Announcement - 2019 (Clemson) - 21250-FM12* 90,152

**Sponsor:** US Small Business Administration (SBA)

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

*Office of Small Business Development Centers Program Announcement - 2019 (SC State) - 21250-FM13* 67,614

**Sponsor:** US Small Business Administration (SBA)

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

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**Hosp., Retail, & Sport Mgmt**

**Hotel, Restaurant & Tour Mgmt**

**Hudson, Simon**

*The Economic Impact of the Equine Sector in South Carolina - 14050-GA04*

46,500

**Sponsor:** SC Department of Agriculture

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 2

**HRSM - Dean's Office**

**Oh, Haemoon**

*Role of Recognition/Reward in Employee Engagement and Turnover Likelihood - 14000-KA08*

49,957

**Sponsor:** Incentive Research Foundation (IRF)

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

**School of Medicine**

**Neurology**

**McElveen, W**

*A PHASE III, MULTICENTER, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, PARALLEL-GROUP, EFFICACY, AND SAFETY STUDY OF GANTENERUMAB IN PATIENTS WITH EARLY (PRODROMAL TO MILD) ALZHEIMER'S DISEASE (GRADUATE) - 18450-JA24*

12,000

**Sponsor:** F. Hoffman-La Roche Ltd./Genetech, Inc./Roche Holdings, Inc.

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 2

**Path, Microbio. & Immunology**

**Murphy, Elizabeth (Angela)**

*Emodin as a complementary dietary therapy to reduce toxicity of 5 fluorouracil - 18060-FB55*

120,980

**Sponsor:** AcePre, LLC/NIH

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1



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**Pediatrics**

**Knight, Lisa**

VDORA - 18140-FA29

1,000

**Sponsor:** University of Arkansas/NIH

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

**Widener, Rebecca**

Outpatient Pediatric AIDS Clinic Services FY18-19 - 18140-FM75

20,000

**Sponsor:** SC Dept of Health & Human Services/HHS

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

**Surgery**

**Mussa, Firas**

Prospective, Multicenter, Single Arm Safety and Effectiveness Confirmatory Study of Endovascular Abdominal Aortic Aneurysm Repair using the Nellix® System (EVAS II Confirmatory Study) - 18200-JA13

9,500

**Sponsor:** Endologix, Inc.

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 7

**University of SC Aiken**

**Aiken**

**Lippard, Rodney**

Subcontract for DOE-SR Public Reading Room at the University of South Carolina Aiken - 17110-FL57

82,170

**Sponsor:** Savannah River Nuclear Solutions, LLC/DOE

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 5

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**Report Total: \$3,093,020**