

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

January, 2018 New Awards

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**Arts and Sciences, College of**

**Archaeology & Anthropology, SC Institute of**

**Smith, Karen**

*Delineation and National Register Evaluation of Cultural Resources for the Adjutant General - 2018 - ( 21300-FB12 )* 34,998

**Sponsor:** Adjutant General's Office/DOD

**Co-PI:**

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

*Standardizing Archaeological Data Collection using the DAACS System, 2018 - ( 21300-FL20 )* 25,000

**Sponsor:** Office of the Adjutant General/DOD

**Co-PI:**

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

**Biological Sciences**

**Mousseau, Timothy**

*A Medium and Large Mammal Survey of the McCrady Training Center 2018 - ( 13010-FC61 )* 60,000

**Sponsor:** South Carolina Military Department (SCMD)/DOD

**Co-PI:**

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

**Chemistry & Biochemistry**

**Stefik, Morgan**

*CAREER: Tunable Isomorphic Architectures - ( 13020-FD06 )* 106,674

**Sponsor:** National Science Foundation (NSF)

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 533,370  
PROJECT\_YEARS: 5

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**Psychology**

**Kenworthy, Tara**

*Psychology Student Advisory Board: A Clinical-Community and School Psychology Collaborative - ( 13580-KL04 )* 1,250

**Sponsor:** Society for Community Research and Action (SCRA)

**Co-PI:**

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

**Public Service & Policy Research, Institute for**

**Oldendick, Robert**

*FLU2TXT - ( 21100-FA26 )* 71,842

**Sponsor:** American Academy of Pediatrics/NIH

**Co-PI:**

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

**Statistics**

**Sims, Wilma**

*SC Observational Study Site Re-selection 2018 - ( 13080-FL17 )* 6,984

**Sponsor:** SC Department of Public Safety (DPS)/NHTSA/DOT

**Co-PI:**

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

**Education, College of**

**Instruction & Teacher Education**

**Jenkins, Toby**

*Project EEE: Explore, Engage, Educate (EEE): South Carolina African American Studies Institute for School Teachers - ( 15250-GJ30 )* 57,698

**Sponsor:** SC Department of Education (SCDE)

**Co-PI:**

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

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**Engineering & Computing, College of**

**Chemical Engineering**

**Jabbarzadeh, Ehsan**

*I-Corps: Therapeutic Composition of Natural Compounds for Wound Healing - ( 15510-FD03 )* 50,000

**Sponsor:** National Science foundation (NSF)

**Co-PI:**

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

**Mustain, William**

*Transitioning Al@Zn Anodes from Successful Concept to Real Applications - ( 15510-JB33 )* 20,000

**Sponsor:** Duracell

**Co-PI:**

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

**Computer Science & Engineering**

**Wang, Song**

*Integrated Feature Detection and Tracking from Microscope Images of Composite Materials - ( 15590-FB34 )* 23,375

**Sponsor:** Universal Technology Corporation (UTC)/ Air Force Research Laboratory (AFRL)

**Co-PI:**

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

**Electrical Engineering**

**BAE, Seongtae**

*Development of Alkali Metals and Alkali Earth Metal Ions Doped  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> Superparamagnetic Nanoparticles with Colossal Intrinsic Loss Power and Exceptionally High r<sub>2</sub>-relaxivity of MR Imaging for Cancer "Nanotheranosis" - ( 15530-LA03 )* 900,000

**Sponsor:** Neo Nanomedics Co. Ltd.-Korea

**Co-PI:**

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

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**Khan, Asif**

*High Efficiency Micro/Nano-pillar UVC Light Emitting Diodes - ( 15530-FB85 )* 90,000

**Sponsor:** Army Research Office/DOD

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 540,000

PROJECT\_YEARS: 3

***IIT - Engineering***

**Crichigno Benitez, Jorge**

*Collaborative Research: Capacity Building: Building a Cybersecurity Pipeline through Experiential Virtual Labs and Workforce Alliances - ( 15560-FA00 )* 420,377

**Sponsor:** National Science Foundation (NSF)

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 3

***Mechanical Engineering***

**Huang, Kevin**

*Identification of Active Surface Species on Molten Carbonates with in situ Raman Spectroscopy - ( 15540-JA95 )* 95,000

**Sponsor:** ExxonMobil

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

**Law, School of**

***Children's Law Center***

**Morris, Carolyn**

*Capacity Building Center for the Courts - ( 15810-FM04 )* 65,856

**Sponsor:** National Council of Juvenile and Family Court Judges/HHS

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

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**Law, School of**

**Suski, Emily**

*Carolina Health Advocacy Medicolegal PartnerShip (CHAMPS) - ( 15800-KL31 )*

65,000

**Sponsor:** Children's Hospital Administrative Medical Committee

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

**Medicine, School of**

**Neurology**

**Sen, Souvik**

*AZT: A PHASE II SAFETY AND EFFICACY STUDY OF ALZT-OP1A AS  
ADJUVANT TREATMENT IN SUBJECTS WITH POST-ISCHEMIC  
STROKE COGNITIVE IMPAIRMENT (PSCI) - ( 18450-JA21 )*

2,000

**Sponsor:** AZTherapies, Inc.

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

**Pathology, Microbiology and Immunology**

**Sougiannis, Alexander**

*Enhancing the Efficacy of 5 Fluorouracil using Emodin as a Complementary Therapeutic -  
( 18060-FB44 )*

35,437

**Sponsor:** National Center for Complementary & Integrative Health (NCIH)/NIH

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 3

**Nursing, College of**

**Nursing**

**Dail, Robin**

*Following real time central and peripheral temperature in VLBW preterm infants for  
negative temperature differential in relationship to clinical context over the first 4 weeks of  
life - ( 11200-JA00 )*

143,320

**Sponsor:** GE Healthcare

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

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**Hughes, Ronda**

*Excellence in Nursing Consortium - ( 11200-LL01 )*

20,000

**Sponsor:** Various Hospitals and/or Health Care Organizations.

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

**McDonnell, Karen**

*Dyad-based Multiple Behavior Intervention for Reducing Lung Cancer Symptoms - ( 11200-KA26 )*

727,000

**Sponsor:** American Cancer Society

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 727,000

PROJECT\_YEARS: 5

**Public Health, Arnold School of**

***Environmental Health Sciences***

**Chatterjee, Saurabh**

*Microbial Dysbiosis and Systemic Inflammation in Gulf War Illness - ( 11510-FB88 )*

26,895

**Sponsor:** Boston University/DOD

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

***Exercise Science***

**Fritz, Stacy**

*The NExT (Neurological Exercise Training) Step in Promoting Healthy Lifestyles after Stroke - ( 11530-LL02 )*

10,000

**Sponsor:** South Carolina American Physical Therapy Association (SCAPTA)

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

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**Health Promotion, Education & Behavior**

**Frongillo, Edward**

*Alive & Thrive Gen 2 Secondary Data Analyses - ( 11540-KA67 )*

198,834

**Sponsor:** FHI360/Bill & Melinda Gates Foundation

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE: 400,061

PROJECT\_YEARS: 2

**Public Health, Arnold School of - Dean**

**Kenison, Kelli**

*Evaluation of Eat Smart Move More SC's Let's Go 3.0 - ( 11580-KL11 )*

45,123

**Sponsor:** Eat Smart Move More SC/BCBS Foundation

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 3

**Pack, Maya**

*Health Workforce Initiative - ( 11500-KA21 )*

90,000

**Sponsor:** USC Educational Foundation/The Duke Endowment

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 2

**Social Work, College of**

**Social Work, College of**

**Hock, Robert**

*Innovative Service Design in Behavioral Health Organizations Training - ( 15900-FJ92 )*

130,532

**Sponsor:** SC Department of Health and Human Services/HHS

**Co-PI:**

AWARD\_PROJECT\_AMT. IF AVAILABLE:

PROJECT\_YEARS: 1

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**USC Beaufort**

***USC Beaufort - Academic Affairs***

**Canada, Brian**

*Website development and maintenance for the Heritage Library Foundation - ( 17210-KL09 )* 5,000

**Sponsor:** Heritage Library Foundation

**Co-PI:**

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

**Dudas, Kimberly**

*Preparing 21st Century Nurses: Integrating Technology to Teach Population Health across the Curriculum - ( 17210-KJ02 )* 52,250

**Sponsor:** Community Foundation of the Lowcountry

**Co-PI:**

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

**Olivetti, Keri**

*Bluffton Ambassador Program - ( 17210-HL13 )* 30,000

**Sponsor:** Town of Bluffton

**Co-PI:**

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

**Report Total: \$3,610,445**