

Office of Research
IT and Data Management Office

November, 2019 New Awards

Arnold School of Public Health

Applied Research & Evaluation (CARE)

Workman, Lauren

SC MIECHV FY19 Evaluation Case Studies

115,412

Sponsor: Children's Trust of South Carolina/HRSA

PS PROJECT: 10009672

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 2

Environmental Health Sciences

Decho, Alan

Control of Facial Amphiphilicity to Tune Macromolecular Interactions with Bacteria

82,754

Sponsor: National Institute of Allergy and Infectious Diseases (NIAID)/NIH

PS PROJECT: 10009736

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 5

Lead, Jamie

I-Corps Proposal - Magnetic Nanoremediation of Crude Oil

90,000

Sponsor: National Science Foundation (NSF)

PS PROJECT: 10009733

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 Duke University

39,917

Sponsor: Duke University/NINDS/NIH

PS PROJECT: 10009667

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 4

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Health Services Policy & Mgmt

Crouch, Elizabeth

SC MIECHV Client and Staff Attrition Evaluation

382,061

Sponsor: Children's Trust of South Carolina/HRSA

PS PROJECT: 10009665

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 2

PASOS

Young, Michael

PASOs MIECHV 2019-2020

300,000

Sponsor: Children's Trust of South Carolina/HHS

PS PROJECT: 10009726

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

College of Arts and Sciences

Anthropology

Fogle, Kevin

Booker T Washington National Monument (BOWA) Archaeological Reanalysis

109,998

Sponsor: National Park Service (NPS)/DOI

PS PROJECT: 10009701

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 5

Archaeology & Anthropology

Young, Stacey

Archaeological Survey of Approximately 43-Acres at Rose Hill Plantation

15,881

Sponsor: SC Parks, Recreation & Tourism

PS PROJECT: 10009722

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

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Biological Sciences

Twiss, Jeffery

Targeting Axonal Mechanisms For Supporting Neural Repair & Function

873,626

Sponsor: Dr. Miriam and Sheldon G. Adelson Medical Research Foundation (AMRF)

PS PROJECT: 10009692

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 3

Wethey, David

ECOSTRESS- Heat and Desiccation Risk Prediction in Intertidal Shellfisheries

427,326

Sponsor: National Aeronautics & Space Administration (NASA)

PS PROJECT: 10009677

AWARD_PROJECT_AMT. IF AVAILABLE: 382,180

PROJECT YEARS: 3

Center for Science Education

Jordan, Donald

USC Junior Science and Humanities Symposium (JSHS) 2020

13,800

Sponsor: National Science Teachers Association (NSTA)/DOD

PS PROJECT: 10009704

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Chemistry & Biochemistry

Richardson, Susan

Development of a Total Organic Fluorine Method for the Analysis of Process Wastewater Streams and Air from Fayetteville Works (NC)

300,000

Sponsor: The Chemours Company FC, LLC

PS PROJECT: 10009716

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Stefik, Morgan

Fluorophobic Interactions for Multimodal  Nanoparticle-Polymer Assemblies

110,000

Sponsor: Petroleum Research Fund/American Chemical Society

PS PROJECT: 10009713

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 2

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Tang, Chuanbing

Control of Facial Amphiphilicity to Tune Macromolecular Interactions with Bacteria

680,148

Sponsor: National Institute of Allergy and Infectious Diseases (NIAID)/NIH

PS PROJECT: 10009734

AWARD_PROJECT_AMT. IF AVAILABLE: 1,829,670

PROJECT YEARS: 5

History

Lekan, Thomas

Arusha 1961: The Making of the Global Environment in an East African Town

28,740

Sponsor: The Rachel Carson Center for Environment and Society

PS PROJECT: 10009687

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Wilder, Colin

SnowVision: A Machine Learning-Based Image Processing Tool for the Study of Native American Paddle Designs

27,724

Sponsor: SC Department of Natural Resources (SCDNR)/NEH

PS PROJECT: 10009683

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 2

Mathematics

Duncan, Alexander

Symmetry and Rationality

42,000

Sponsor: Simons Foundation

PS PROJECT: 10009696

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 5

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Psychology

Bradshaw, Jessica

Neurobehavioral Determinants of Social Communication and Language Impairments in At-Risk Infants 284,624

Sponsor: National Institute on Deafness and Other Communication Disorders/NIH

PS PROJECT: 10009737

AWARD_PROJECT_AMT. IF AVAILABLE: 426,936

PROJECT YEARS: 3

College of Education

Educ. Leadership & Policies

Stevick, Doyle

Anne Frank Carolina: Exhibition & Learning Laboratory 375,000

Sponsor: USC Educational Foundation/Anne Frank House

PS PROJECT: 10009712

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 3

Educational Studies

Plotner, Tony

Carolina LIFE-CAP 633,000

Sponsor: SC Vocational Rehabilitation Department

PS PROJECT: 10009662

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Instruction & Teacher Educ.

Boutte, Gloria

The Asa Yoruba Project 200,000

Sponsor: US Department of Education (USDE)

PS PROJECT: 10009721

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 2

Office of Research
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November, 2019 New Awards

Curcio, Rachelle

Research Renewal Within and Across Southeastern Professional Development School Partnerships

100,000

Sponsor: The Spencer Foundation

PS PROJECT: 10009708

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 2

Hodges, Thomas

South Carolina Center for Research on Teacher Education (SC-Teacher)

125,000

Sponsor: SC Commission on Higher Education

PS PROJECT: 10009718

AWARD_PROJECT_AMT. IF AVAILABLE: 112,500

PROJECT YEARS: 1

Muller, Meir

EDUC 635: Anne and Emmett: Confronting Antisemitism, Racism and Otherness through Pedagogy

2,500

Sponsor: Academic Engagement Network (AEN)

PS PROJECT: 10009686

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Wang, Yang

Exploring College English Learners' Disciplinary Reading Using Eye Movement and Miscue Analysis

3,000

Sponsor: The Center for Expansion of Language and Thinking

PS PROJECT: 10009691

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 2

Research, Eval., & Measurement

Dickenson, Tammiee

South Carolina Center for Research on Teacher Education (SC-Teacher)

38,400

Sponsor: South Carolina Commission on Higher Education

PS PROJECT: 10009719

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Office of Research
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November, 2019 New Awards

Lewis, Ashlee

ABC Project Research Partnership

60,000

Sponsor: Winthrop University/SC Arts Commission

PS PROJECT: 10009705

AWARD_PROJECT_AMT. IF AVAILABLE: 30,000

PROJECT YEARS: 1

College of Engineering & Comp.

Chemical Engineering

Diao, Weijian

Mixed Metal Oxide Catalysts Development for Oxidative Dehydrogenation (ODH) of Ethane to Ethylene

500,000

Sponsor: Sabic Global Technologies, B.V.

PS PROJECT: 10009702

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Monnier, John

Enhanced Oxidative Dehydrogenation of Ethane with Facilitated Transport Membranes for Low Cost Production of Ethylene

100,000

Sponsor: Compact Membrane Systems, Inc.(CMS)/DOE

PS PROJECT: 10009685

AWARD_PROJECT_AMT. IF AVAILABLE: 50,000

PROJECT YEARS: 1

Ritter, James

Microfibrous Entrapped Sorbents for High Throughput Modular Process Intensified Gas Separation and Ion Exchange (Match Account for Award No. 10008422)

50,000

Sponsor: Clemson University/SCDOC

PS PROJECT: 10009678

AWARD_PROJECT_AMT. IF AVAILABLE: 100,000

PROJECT YEARS: 1

**Office of Research
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November, 2019 New Awards

White, Ralph

Predictive Performance and Life Modeling of Implantable Medical Batteries

49,970

Sponsor: EaglePicher Medical Power, LLC

PS PROJECT: 10009664

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Civil & Environmental Eng.

Sasanakul, Inthuorn

Cyclic Triaxial Testing of Unsaturated Mine Tailings

30,000

Sponsor: Golder Associates Ltd

PS PROJECT: 10009663

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

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November, 2019 New Awards

Computer Science & Engineering

Sheth, Amit

Spokes: MEDIUM: MIDWEST: Collaborative: Community-Driven Data Engineering for Opioid and Substance Abuse in the Rural Midwest 120,000

Sponsor: National Science Foundation (NSF)

PS PROJECT: 10009681

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 2

Modeling Social Behavior for Healthcare Utilization in Depression 111,064

Sponsor: Medical College of Cornell University/NIMH/NIH

PS PROJECT: 10009699

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

(Supplemental) Modeling Social Behavior for Healthcare Utilization in Depression 12,583

Sponsor: Medical College of Cornell University/NIMH/NIH

PS PROJECT: 10009700

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

NSF Convergence Accelerator: Symposium on Big Data & AI-Driven Disaster Management for Planning, Response, Recovery, and Resiliency 50,000

Sponsor: National Science Foundation (NSF)

PS PROJECT: 10009731

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

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November, 2019 New Awards

Wang, Song

Dendroid Core Detection and Tracking for Directionally Solidified Ni-Based Alloys 20,000

Sponsor: UES, Inc./AFRL/DOD

PS PROJECT: 10009679

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

SnowVision: A Machine Learning-Based Image Processing Tool for the Study of Native American Paddle Designs 431,658

Sponsor: SC Department of Natural Resources (SCDNR)/NEH

PS PROJECT: 10009682

AWARD_PROJECT_AMT. IF AVAILABLE: 239,622

PROJECT YEARS: 2

Electrical Engineering

Wang, Guoan

Plasmon-Plasmon Scattering Digital Logic 30,535

Sponsor: NanoMEMS Research, LLC/NASA

PS PROJECT: 10009714

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

IIT - Engineering

Hikmet, Neset

South Carolina Center for Research on Teacher Education (SC-Teacher) 11,600

Sponsor: SC Commission on Higher Education

PS PROJECT: 10009720

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Mechanical Engineering

Huang, Xinyu

Lithium-Ion Pouch Cell Impact and Crush Testing 49,500

Sponsor: General Motors Holdings, LLC

PS PROJECT: 10009680

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Office of Research
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November, 2019 New Awards

Wang, Yi

An Intelligent Framework to Develop Adaptive Parametric Reduced Order Model Database for Aerostructural Control (CFDRC Project No. 9397)

125,139

Sponsor: CFD Research Corporation/NASA

PS PROJECT: 10009689

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 2

Won, Sang Hee

Optimization of Oxidative Desulfurization of Crude Oils

234,000

Sponsor: KAUST at Saudi Arabia

PS PROJECT: 10009709

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

College of Pharmacy

Drug Discovery & Biomed Sci.

Sahin, Ozgur

Bioinformatics Analyses of HA-regulating Genes and HA-related ECM Signature in Different Breast Cancer Subtypes

90,000

Sponsor: Halozyme Therapeutics, Inc.

PS PROJECT: 10009706

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

College of Social Work

Families in Society, Institute

Shapiro, Cheri

IFS Support for First Steps for PDG

45,000

Sponsor: SC First Steps to School Readiness

PS PROJECT: 10009730

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

**Office of Research
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November, 2019 New Awards

Darla Moore School of Business

Moore Sch - Div. of Research

Von Nessen, Joseph

The Economic Impact of Project Inspector

27,500

Sponsor: S&ME, Inc.

PS PROJECT: 10009690

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

South Carolina Commission on Higher Education - FY19 Economic Impact Analysis

56,500

Sponsor: SC Commission on Higher Education

PS PROJECT: 10009725

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Div. of Information Technology

University Technology Services

Zhou, Jun

SnowVision: A Machine Learning-Based Image Processing Tool for the Study of Native American Paddle Designs

68,012

Sponsor: SC Department of Natural Resources (SCDNR)/NEH

PS PROJECT: 10009684

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 2

Hosp., Retail, & Sport Mgmt

Sport & Entertainment Mgmt

Shaomian, Armen

Collegiate Collaboration: Single Production and Release Show

600

Sponsor: Music and Entertainment Industry Educators Association

PS PROJECT: 10009717

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Office of Research
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November, 2019 New Awards

School of Law

Children's Law Center

Morris, Carolyn

Connection of Child Maltreatment and Juvenile Delinquency

24,521

Sponsor: SC Department of Public Safety/DOJ

PS PROJECT: 10009673

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Identifying and Responding to Juvenile Victims and High Risk Juveniles of Sex Trafficking in South Carolina

12,124

Sponsor: S.C. Department of Public Safety/DOJ

PS PROJECT: 10009674

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

School of Medicine

Cell Biology & Anatomy

Carver, Wayne

School of Medicine - Prisma Health Physical Therapist Contract

4,815

Sponsor: Prisma Health - Midlands d/b/a Geriatric Mobility Research Clinic

PS PROJECT: 10009703

AWARD_PROJECT_AMT. IF AVAILABLE: 17,550

PROJECT YEARS: 1

Family & Preventive Medicine

Mayeaux, Edward (E.J)

The Diabetes Initiative of South Carolina

33,646

Sponsor: Medical University of South Carolina (MUSC)

PS PROJECT: 10009710

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

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November, 2019 New Awards

Internal Medicine

Ahuja, Divya

Transportation Vulnerability as a Barrier for People Not Engaged in HIV Medical Care: Measuring the effect of Traditional Transportation Services versus "Lyft" Transportation on Retention in Care, Viral Suppression and Patient Satisfaction 414,600

Sponsor: Viiv Healthcare

PS PROJECT: 10009666

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 2

Sanasi-Bhola, Kamla

NIH Center for AIDS Research (CFAR) Transforming the Carolinas: Preparing to End the Epidemic for Transgender People of Color 35,328

Sponsor: University of North Carolina - Chapel Hill/NIAID/NIH

PS PROJECT: 10009695

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Path, Microbio. & Immunology

Nagarkatti, Mitzi

Control of Facial Amphiphilicity to Tune Macromolecular Interactions with Bacteria 59,600

Sponsor: National Institute of Allergy and Infectious Diseases (NIAID)/NIH

PS PROJECT: 10009735

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 5

Oskeritzian, Carole

Regulation of Gene Expression in the Anaphylactic Pathway 20,018

Sponsor: National Jewish Health/NIAID/NIH

PS PROJECT: 10009693

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 4

**Office of Research
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November, 2019 New Awards

Pediatrics

Rotholz, David

Project SEARCH Strand, the 2019 SC Interagency Transition Alliance Conference 3,500

Sponsor: SC Developmental Disabilities Council (SCDDC)/HHS

PS PROJECT: 10009675

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

2020 SC Assistive Technology Expo 5,000

Sponsor: SC Developmental Disabilities Council (SCDDC)/HHS

PS PROJECT: 10009676

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

South Carolina Assistive Technology Program 77,487

Sponsor: Administration for Community Living/HHS

PS PROJECT: 10009715

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

Pharm., Physiology & Neurology

Frizzell, Norma

Investigating the the Mechanistic Basis of Dimethyl Fumarate Mediated Neuroprotection 173,179

Sponsor: Biogen MA Inc.

PS PROJECT: 10009732

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 2

University of SC Aiken

AK Ruth Patrick Sci Ed

Senn, Gary

Science & Technology Enrichment Program (STEP) - Audubon 24,000

Sponsor: National Audubon Society, Inc.

PS PROJECT: 10009694

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 1

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November, 2019 New Awards

University of SC Beaufort

BFT Humanities

Morris, Brent

America's Reconstruction: The Untold Story

175,787

Sponsor: National Endowment for the Humanities

PS PROJECT: 10009688

AWARD_PROJECT_AMT. IF AVAILABLE:

PROJECT YEARS: 2

University of SC Upstate

Upstate

Herzberg, Tina

Project INSPIRE: Increasing the STEM Potential of Individuals Who Read Braille

114,990

Sponsor: U.S. Department of Education

PS PROJECT: 10009707

AWARD_PROJECT_AMT. IF AVAILABLE: 574,950

PROJECT YEARS: 5

Report Total: \$8,853,167