Office of Research
IT and Data Management Offfice
November, 2023   New Awards

Academic Support Services

OFFICE OF SUSTAINABILITY
Cook, Larry

S.C. DHEC Collegiate Recycling Grant for Fiscal Year 2024   10,000

    Sponsor: SC Department of Health & Environmental Control (DHEC)

        PS PROJECT: 10013567

        TOTAL_PROJECT_AMT. IF AVAILABLE:

        PROJECT YEARS: 1

Arnold School of Public Health

Environmental Health Sciences
Lead, Jamie

A nano-enabled approach to the aqueous phase removal of Karenia brevis; a mesocosm study   82,000

    Sponsor: Mote Marine Laboratories/FWRI/FWC

        PS PROJECT: 10013543

        TOTAL_PROJECT_AMT. IF AVAILABLE:

        PROJECT YEARS: 1

Exercise Science
Moore, Robert

ACCOUNT CLOSED - IPA Agreement with Dorn VA Medical Center - Modification - Robert Davis Moore   33,947

    Sponsor: WJB Dorn VA Medical Center/VA

        PS PROJECT: 10013559

        TOTAL_PROJECT_AMT. IF AVAILABLE:

        PROJECT YEARS: 1

Stewart, Jill

Behavioral and Neural Correlates of Post-Stroke Fatigue   21,531

    Sponsor: Texas Women's University/NIH

        PS PROJECT: 10013538

        TOTAL_PROJECT_AMT. IF AVAILABLE: 64,992

        PROJECT YEARS: 3

Torres-McGehee, Toni
Nutrition and Mental Health Related Factors Across Historically Black College and University Students: A Qualitative Study on the Dimensions Food Access 1,000

    Sponsor: Mid-Atlantic Athletic Trainers Association (MAATA)

        PS PROJECT: 10013580
        TOTAL_PROJECT_AMT. IF AVAILABLE:
        PROJECT YEARS: 1

Winkelmann, Zachary
(PI - Maegan Milliet) Interviews of Athletic Trainers' Following the Death of a Student-Athlete by Suicide 1,000

    Sponsor: NATA Research & Education Foundation

        PS PROJECT: 10013533
        TOTAL_PROJECT_AMT. IF AVAILABLE:
        PROJECT YEARS: 2

Health Prom., Educ. & Behavior
Bornstein, Marta
Ohio Policy Evaluation Network (OPEN) 39,418

    Sponsor: University of Cincinnati/Anonymous (Non-Profit)

        PS PROJECT: 10013542
        TOTAL_PROJECT_AMT. IF AVAILABLE:
        PROJECT YEARS: 2

Frongillo, Edward
Food Safety Experiences Scale 21,168

    Sponsor: International Food Policy Research Institute (IFPRI)

        PS PROJECT: 10013532
        TOTAL_PROJECT_AMT. IF AVAILABLE:
        PROJECT YEARS: 1

Larson, Leila
(PI - Victoria Adebiyi) Breastfeeding Decision-making and Practices Among Working Mothers and Role of External Influences in Urban Nigeria 20,000

    Sponsor: Nestlé Foundation

        PS PROJECT: 10013576
        TOTAL_PROJECT_AMT. IF AVAILABLE:
        PROJECT YEARS: 1

Office of Research
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Athletics

Athletics General Fund
Lusk, Tyson

Continuation of College Grants of Primary Prevention Strategies — 75,000

> *Sponsor:* SC Department of Alcohol and Other Drug Abuse Services
> (DAODAS)/ARPA/HHS
>
> > PS PROJECT: 10013537
> > TOTAL_PROJECT_AMT. IF AVAILABLE:
> > PROJECT YEARS: 1

College of Arts and Sciences

Baruch Institute
Kimball, Matthew

Evaluating oyster reefs as habitat: Comparing the utility of ecological metrics to assess ecosystem function — 136,862

> *Sponsor:* University of Michigan/National Estuarine Research Reserve Association
> (NERRA)/NOAA
>
> > PS PROJECT: 10013409
> > TOTAL_PROJECT_AMT. IF AVAILABLE:
> > PROJECT YEARS: 1

Biological Sciences
Speiser, Daniel

Mapping structural and functional connectivity of the distributed sensory system in chiton armor — 117,000

> *Sponsor:* International Human Frontier Science Program Organization (HFSPO)
>
> > PS PROJECT: 10013540
> > TOTAL_PROJECT_AMT. IF AVAILABLE: 351,000
> > PROJECT YEARS: 3

Geography
Wang, Cuizhen (Susan)

South Carolina Water Resources Center Program Management — 33,448

> *Sponsor:* Clemson University/DOI
>
> > PS PROJECT: 10013568
> > TOTAL_PROJECT_AMT. IF AVAILABLE:
> > PROJECT YEARS: 1

Physics & Astronomy

Monin, Alexander
Taming Non-Perturbative Dynamics in High Energy Physics   38,818

   Sponsor: National Science Foundation (NSF)

   PS PROJECT: 10013243
   TOTAL_PROJECT_AMT. IF AVAILABLE: 225,000
   PROJECT YEARS: 3

Pershyn, Yuriy
EFRI BRAID: Developing new classes of devices and networks based on computationally   490,000
efficient history dependent neurons

   Sponsor: University of Texas San Antonio/NSF

   PS PROJECT: 10013560
   TOTAL_PROJECT_AMT. IF AVAILABLE: 490,000
   PROJECT YEARS: 4

Petrov, Alexey
Particle Physics Research Program   26,786

   Sponsor: US Department of Energy (DOE)

   PS PROJECT: 10013113
   TOTAL_PROJECT_AMT. IF AVAILABLE: 180,000
   PROJECT YEARS: 3

School of Earth, Ocean & Env.

Hardy, Dean
RII Track-2 FEC: An interdisciplinary program for research, education, and outreach on   443,056
climate change and adaptive resilience in the Yazoo - Mississippi Delta

   Sponsor: Mississippi State University/NSF

   PS PROJECT: 10013296
   TOTAL_PROJECT_AMT. IF AVAILABLE: 942,782
   PROJECT YEARS: 4

Ryker, Katherine
JSHS Regional Science Fair 2024   34,150

   Sponsor: National Science Teachers Association (NSTA)/DOD

   PS PROJECT: 10013548
   TOTAL_PROJECT_AMT. IF AVAILABLE:
   PROJECT YEARS: 1

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College of Education

Education - Dean's Office
Van Buren, Cindy

State Apprenticeship Expansion, Equity, and Innovation (SAEEI)   135,000

> **Sponsor:** Apprenticeship Carolina - SC Technical College System

>> PS PROJECT: 10013561
>> TOTAL_PROJECT_AMT. IF AVAILABLE:
>> PROJECT YEARS: 1

Research, Eval., & Measurement
Dickenson, Tammiee

Evaluation of the Young Men United Program Year 2   60,500

> **Sponsor:** United Way of the Midlands

>> PS PROJECT: 10013546
>> TOTAL_PROJECT_AMT. IF AVAILABLE:
>> PROJECT YEARS: 1

Lewis, Ashlee

South Carolina Arts Assessment Program   61,000

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

>> PS PROJECT: 10013219
>> TOTAL_PROJECT_AMT. IF AVAILABLE:
>> PROJECT YEARS: 1

SC School Improvement Council
Utter, Karen

Statewide Family Engagement Center program   718,405

> **Sponsor:** Office of Innovation and Improvement/USDE

>> PS PROJECT: 10013393
>> TOTAL_PROJECT_AMT. IF AVAILABLE: 1,000,000
>> PROJECT YEARS: 1

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IT and Data Management Offfice
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College of Engineering & Comp.

Chemical Engineering

Meekins, Benjamin

SBIR with Advanced Cooling Technologies (DE-FOA-0002555)   65,003

> *Sponsor:* Advanced Cooling Technologies, Inc./DOE
>
> > PS PROJECT: 10013573
> > TOTAL_PROJECT_AMT. IF AVAILABLE:
> > PROJECT YEARS: 1

Uline, Mark

ARLIS Credibility Assessment Modernization Task Order   342,672

> *Sponsor:* University of Maryland/DOD
>
> > PS PROJECT: 10013550
> > TOTAL_PROJECT_AMT. IF AVAILABLE:
> > PROJECT YEARS: 1

Computer Science & Engineering

Sheth, Amit

Artificial Intelligence Institute ("AIISC") of University of South Carolina ("USC") and WIPRO LIMITED ("Wipro")   24,000

> *Sponsor:* Wipro Limited
>
> > PS PROJECT: 10013572
> > TOTAL_PROJECT_AMT. IF AVAILABLE:
> > PROJECT YEARS: 3

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Electrical Engineering
Khan, Asif

"Understanding High Field Electron Transport and Trapping in UWBG AlGaN Heterostructures."

Sponsor: University of Wisconsin-Madison/USAF/DOD

    PS PROJECT: 10013549

    TOTAL_PROJECT_AMT. IF AVAILABLE:

    PROJECT YEARS: 3

84,941

High Thermal Conductivity AlN-SiC templates for Northrop Grumman GaN-AlGaN SLCFET

Sponsor: Northrop Grumman/DARPA/DOD

    PS PROJECT: 10013582

    TOTAL_PROJECT_AMT. IF AVAILABLE: 427,678

    PROJECT YEARS: 2

228,171

Mechanical Engineering
Knight, Travis

South Carolina Advanced Nuclear Technology Feasibility Study

Sponsor: USC Educational Foundation/Tides Foundation/Google

    PS PROJECT: 10013575

    TOTAL_PROJECT_AMT. IF AVAILABLE:

    PROJECT YEARS: 1

100,000

Lee, Junsoo

(PI: Kavan Bojappa) Study of Particle Swarm Optimization for Multi-agent Dynamical Systems

Sponsor: College of Charleston/SC Space Grant Consortium/NASA

    PS PROJECT: 10013541

    TOTAL_PROJECT_AMT. IF AVAILABLE:

    PROJECT YEARS: 1

7,500

Wang, Yi

Software Tool for Surrogate Modeling and Design of Experiments

Sponsor: CFD Research Corporation/Office of the Secretary of Defense/DOD

    PS PROJECT: 10013574

    TOTAL_PROJECT_AMT. IF AVAILABLE: 400,033

    PROJECT YEARS: 2

209,737

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College of Information & Comm.

School of Information Sciences
Tu-Keefner, Feili

Creating a Sustainable and Sharable Disaster Information Services Repository Website   17,505

> **Sponsor:** MUSC/NLM/NIH

> PS PROJECT: 10013298
> TOTAL_PROJECT_AMT. IF AVAILABLE:
> PROJECT YEARS: 1

College of Social Work

Families in Society, Institute
Lopez-DeFede, Ana

Leveraging Technology to Reduce Disparities and Improve Early Detection of and Timely Care for Postpartum Complications   157,601

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

> PS PROJECT: 10013547
> TOTAL_PROJECT_AMT. IF AVAILABLE:
> PROJECT YEARS: 5

Social Work - Dean's Office
Flynn, Cynthia

Fatherhood FIRE/H2O Program Evaluation Year 4   109,733

> **Sponsor:** SC Center for Fathers and Families (SCCFF)/HHS

> PS PROJECT: 10013552
> TOTAL_PROJECT_AMT. IF AVAILABLE:
> PROJECT YEARS: 1

Office of Research
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Darla Moore School of Business

Moore Sch - Div. of Research
Von Nessen, Joseph

SCA Regional Development Alliance: Jasper County Economic Impact Analysis   42,500

  Sponsor: SCA Regional Development Alliance

  PS PROJECT: 10013556
  TOTAL_PROJECT_AMT. IF AVAILABLE:
  PROJECT YEARS: 1

Office of the Provost

Provost
Gibson, Robert

2023 Nonprofit Security Grant Program (NSGP)   149,973

  Sponsor: SCRF/South Carolina Law Enforcement Division (SLED)/DHS

  PS PROJECT: 10013551
  TOTAL_PROJECT_AMT. IF AVAILABLE:
  PROJECT YEARS: 1

School of Law

Children's Law Center
Dhunjishah, L Michelle

South Carolina Senate Contract   237,500

  Sponsor: South Carolina Senate

  PS PROJECT: 10013114
  TOTAL_PROJECT_AMT. IF AVAILABLE:
  PROJECT YEARS: 1

Addressing Minority Youth Contact with Law Enforcement: An Approach to Reducing   50,695
Racial and Ethnic Disparities in the South Carolina Juvenile Justice System

  Sponsor: Office of Highway Safety and Justice Programs (OHSJP)/SCDPS/DOJ

  PS PROJECT: 10013459
  TOTAL_PROJECT_AMT. IF AVAILABLE:
  PROJECT YEARS: 1

School of Medicine

Cell Biology & Anatomy
Azhar, Mohamad

Targeted nanoparticle therapy for reversal of thoracic aortopathy (COBRE)   35,000

> **Sponsor:** Clemson University/NIH (COBRE)
>
>> PS PROJECT: 10013215
>> TOTAL_PROJECT_AMT. IF AVAILABLE:
>> PROJECT YEARS: 1

ACCOUNT CLOSED - Targeted nanoparticle therapy for reversal of thoracic aortopathy (COBRE)   50,000

> **Sponsor:** Clemson University/NIH (COBRE)
>
>> PS PROJECT: 10013544
>> TOTAL_PROJECT_AMT. IF AVAILABLE:
>> PROJECT YEARS: 1

MDC Ctr Disability Resources
Rotholz, David

2023 SC Assistive Technology Leadership Conference   1,500

> **Sponsor:** SC Developmental Disabilities Council (SCDDC)/HHS
>
>> PS PROJECT: 10013557
>> TOTAL_PROJECT_AMT. IF AVAILABLE:
>> PROJECT YEARS: 1

Path, Microbio. & Immunology
Velazquez, Kandy

Development of Ojeok-san as a Safe and Effective Analgesic to treat Chronic Pain   184,826

> **Sponsor:** SC Opioid Recovery Fund (SCORF)
>
>> PS PROJECT: 10013539
>> TOTAL_PROJECT_AMT. IF AVAILABLE:
>> PROJECT YEARS: 2

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University of SC Aiken

AK Library
Ennis, Lisa

Proposal for continuation of contract for DOE-SR Public Reading Room   153,562

    Sponsor: Savannah River Nuclear Solutions, LLC (SRNS)/DOE

        PS PROJECT: 10013584

        TOTAL_PROJECT_AMT. IF AVAILABLE: 403,351

        PROJECT YEARS: 5

AK University Police
Lott, Nicholas

Aiken Scholars Academy School Resource Officer (SRO) Program   135,601

    Sponsor: SC Department of Public Safety (SC DPS)

        PS PROJECT: 10013566

        TOTAL_PROJECT_AMT. IF AVAILABLE:

        PROJECT YEARS: 1

University of SC Upstate

UPS Academic Affairs Admin
Waldrop, Susannah

Avanzando Through College (2023-24)   20,000

    Sponsor: UnidosUS

        PS PROJECT: 10013583

        TOTAL_PROJECT_AMT. IF AVAILABLE:

        PROJECT YEARS: 1

UPS INSTIT EFFECTIVENESS & RESEARC
Karls, Amanda

SC DHEC Collegiate Recycling Grant   10,000

    Sponsor: SC Department of Health & Environmental Control (DHEC)

        PS PROJECT: 10013562

        TOTAL_PROJECT_AMT. IF AVAILABLE:

        PROJECT YEARS: 1

Report Total: $5,018,109