

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

Arnold School of Public Health

Applied Research & Evaluation (CARE)

Workman, Lauren

Title: AccessHealth & Healthy People Healthy Carolinas Evaluation 2026

Sponsor: SC Hospital Association Foundation (SCHA)

Total Projected: \$38,543

Project Years: 1

Environmental Health Sciences

Jilling, Andrea

Title: Follow-up Soil Sample Collection for the Rainmaker Farm

Sponsor: Oklahoma State University/Gulch Environmental Foundation

Total Projected: \$6,623

Project Years: 1

Economic Engagement

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CONNER, KYRON

Title: USC APEX Accelerator

Sponsor: Office of Small Business Programs (OSBP)/DOD

Total Projected: \$824,720

Project Years: 1

Title: SC Department of Commerce APEX Accelerator - Matching funds for Award No. U00038259

Sponsor: SC Department of Commerce

Total Projected: \$170,000

Project Years: 1

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Joseph F. Rice School of Law

Children's Law Center

Dhunjishah, L Michelle

Title: Emergency Protective Custody Training

Sponsor: SC Department of Social Services (DSS)

Total Projected: \$10,530

Project Years: 1

Walker, Sharon

Title: FY26 Citizens Review Panel (CRP)

Sponsor: SC Department of Social Services (DSS)

Total Projected: \$75,935

Project Years: 1

McCausland College of Arts and Sciences

Mathematics

Colebank, Mitchel

Title: An Echocardiography-driven Digital Twin for Ventricular Septal Defect Management

Sponsor: American Heart Association (AHA)

Total Projected: \$230,415

Project Years: 3

Physics & Astronomy

Mu, Sai

Title: Understanding the Heterochiral Charge-density Wave State in van der Waals Crystals: A Data-Driven approach

Sponsor: National Science Foundation (NSF)

Total Projected: \$288,117

Project Years: 2

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Petti, Roberto

Title: Elucidating Flavor Content of Nucleons in Nuclei

Sponsor: US Department of Energy (DOE)

Total Projected: \$150,000

Project Years: 2

Psychology

Weist, Mark

Title: Autism Service Provision Readiness

Sponsor: Community Mental Health Services (CMHS)/OMH/SC BHDD

Total Projected: \$9,000

Project Years: 1

Title: NAMI South Carolina Youth-Centered Mental Health Awareness & Education

Sponsor: National Alliance on Mental Illness (NAMI) SC/BCBS of SC Foundation

Total Projected: \$100,000

Project Years: 3

School of Earth, Ocean & Env.

Benitez-Nelson, Claudia

Title: (PI - Victoria Ferri) Slocum-Lunz Foundation: Defining and Delineating Blackwater River Systems in South Carolina Using Dissolved Organic Carbon, Optical Properties, and Dissolved Organic Matter Composition

Sponsor: Slocum-Lunz Foundation, Inc.

Total Projected: \$1,500

Project Years: 1

Wilson, Alicia

Title: (PI - Kate Dezii) Quantifying Rising Water Table Threats for Coastal Communities and Ecosystems

Sponsor: Bald Head Island Conservancy

Total Projected: \$20,000

Project Years: 1

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Theatre and Dance

Milling, Stephanie

Title: Dance Technique Institute

Sponsor: SC Department of Education (SCDE)

Total Projected: \$29,000

Project Years: 1

Molinaroli College of Engineering & Computing

Biomedical Engineering

Taheri-Qazvini, Nader

Title: Dual-Cure Strategies for 3D-Printable High Solid Regolith Suspensions with Integrated Radiation Shielding

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

Total Projected: \$23,500

Project Years: 1

Chemical Engineering

Lauterbach, Jochen

Title: Cell performance testing and fundamental characterization

Sponsor: Heiontec

Total Projected: \$15,000

Project Years: 1

Sadati, Monirosadat

Title: Engineering Nanostructured Load-Bearing Structural Batteries with High Ionic Conductivity

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

Total Projected: \$23,500

Project Years: 1

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White, Ralph

Title: *Developing and Demonstrating Solid-State Electrolytes for Next-Generation Structural Li-ion and Na-ion Batteries*

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

Total Projected: \$32,000

Project Years: 1

Civil & Environmental Eng.

Matta, Fabio

Title: *Investigation of Current and New Generation Cementitious and Supplementary Cementitious Materials for SCDOT Concrete*

Sponsor: Clemson University/SCDOT/FHA

Total Projected: \$68,207

Project Years: 3

IIT - Engineering

Wu, Dezhi

Title: *Travel: IEEE International Conference on Health Informatics (ICHI 2026) Doctoral Consortium Program*

Sponsor: National Science Foundation (NSF)

Total Projected: \$15,000

Project Years: 1

Mechanical Engineering

Gross, Andrew

Title: *Qualification and Acceptance Protocol for Additively Manufactured Alloys*

Sponsor: Battelle Savannah River Alliance, LLC (BSRA)/SRNL/DOE

Total Projected: \$257,000

Project Years: 1

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Sockalingam, Subramani

Title: Characterizing high strain rate mode-II delamination response of composite materials

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

Total Projected: \$28,000

Project Years: 1

Yuan, Lang

Title: Integrating High-Fidelity Process Modeling and In-Situ Monitoring for In-Space Manufacturing

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

Total Projected: \$20,000

Project Years: 1

School of Medicine

Cell Biology & Anatomy

Bruschi Marinho Priviero, Fernanda

Title: Does Time Matter? Childhood vs Adult Pharmacologic Obesity Treatment to Prevent Cardiovascular–Kidney–Metabolic Syndrome

Sponsor: American Heart Association (AHA)

Total Projected: \$100,000

Project Years: 2

Pernomian, Laena

Title: Wnt/ β -Catenin Activation Contributes to Sex-Specific Loss of Piezo1 in Heart Failure Induced by Hypertension

Sponsor: American Heart Association (AHA)

Total Projected: \$231,000

Project Years: 3

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Genetics

Edwards, Janice

Title: 2026 Huntington's Disease Center of Excellence

Sponsor: Prisma Health - Midlands/Huntington's Disease Society of America

Total Projected: \$2,500

Project Years: 1

Internal Medicine

Al-hasan, Majdi

Title: Housing Opportunities for Persons With AIDS (HOPWA) for Newberry County

Sponsor: SC Department of Public Health (DPH)/HUD

Total Projected: \$104,778

Project Years: 1

University of SC Beaufort

BFT History

Shinn, James

Title: Gullah Geechee Cultural Heritage Corridor Support to USCB ISRE 2026 Spring Symposium

Sponsor: Gullah Geechee Cultural Heritage Corridor/NPS/DOI

Total Projected: \$6,000

Project Years: 1

BFT Libraries

Cobb, Warren

Title: Freedom Takes Root: A digital Gateway to the Reconstruction Era

Sponsor: American Library Association (ALA)/Carnegie-Whitney Grant

Total Projected: \$5,000

Project Years: 2

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