College of Engineering & Comp.

Mechanical Engineering

Bayoumi, Abdel

Title: Development of Maintenance Strategies for FVL Platforms
Sponsor: Wichita State University/US Army CCDC Aviation and Missile Center
Total Projected: $425,648
Project Years: 2

Arnold School of Public Health

Environmental Health Sciences

Cai, Guoshuai

Title: The evolution of copy number variations in the AT-rich Plasmodium genome - Subcontract w/ University of Florida
Sponsor: University of Florida/NIH
Total Projected: $91,847
Project Years: 3

Arnold School of Public Health

Epidemiology & Biostatistics

Clay-Gilmour, Alyssa

Title: Impact of Genetic susceptibility along the continuum from Monoclonal Gammopathy of Undetermined Significance (MGUS) to Multiple Myeloma (MM) (Subcontract to Mayo Clinic)
Sponsor: Mayo Clinic/NIH
Total Projected: $148,804
Project Years: 5
College of Arts and Sciences

History

Donaldson, Bobby

Title: Cooperative Agreement between the Department of the Interior/National Park Service and the Center for Civil Rights History and Research: Programmatic Activities for the CRC
Sponsor: National Park Service/DOI
Total Projected: $3,362,100
Project Years: 5

College of Arts and Sciences

School of Earth, Ocean & Env.

Dragovic, Besim

Title: Collaborative Research: Rodingites as Recorders of Tectonic Processes from the Seafloor to Convergence: A case study of the Dun Mountain Ophiolite Belt
Sponsor: National Science Foundation (NSF)
Total Projected: $137,781
Project Years: 3

School of Medicine

Genetics

Edwards, Janice

Title: Telehealth Curriculum for Genetic Counselors: Increasing Accessibility to Quality Services through Best Practice Education
Sponsor: SC Research Foundation (SCRF)/The Fullerton Foundation
Total Projected: $65,900
Project Years: 2
College of Arts and Sciences

Geography

Ellis, Jean

<table>
<thead>
<tr>
<th>Title</th>
<th>Topographic analysis of dunes along a managed coast</th>
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<tr>
<td>Sponsor</td>
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Darla Moore School of Business

Small Business Dev. Ctr.

Featheringill, Paul

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<thead>
<tr>
<th>Title</th>
<th>2022 Rural Microentrepreneur Assistance Program Grant</th>
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<tr>
<td>Sponsor</td>
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College of Engineering & Comp.

Chemical Engineering

Gower, R. Michael

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<th>Title</th>
<th>CAREER: Biomaterial Implants to Control Adipose Tissue Function</th>
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<td>Sponsor</td>
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<td>Project Years</td>
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College of Arts and Sciences

Geography

Hiscox, April

Title: Collaborative Research: Understanding Interactions between Mesoscale and Microscale Flows in the Stable Boundary Layer over Shallow Terrain

Sponsor: National Science Foundation (NSF)
Total Projected: $273,725
Project Years: 3

Arnold School of Public Health

Communication Sci & Disorders

Klusek, Jessica

Title: Aging Symptom Trajectories in Mother Carriers of the FMR1 Premutation

Sponsor: National Institute on Aging (NIA)/NIH
Total Projected: $2,900,521
Project Years: 5

College of Arts and Sciences

Biological Sciences

Krizek, Beth

Title: Transcriptional control of growth regulatory modules by AIL transcription factors

Sponsor: National Science Foundation (NSF)
Total Projected: $549,151
Project Years: 4
Arnold School of Public Health

Health Services Policy & Mgmt
Liang, Chen

Title: R21 resubmission: Curating a Knowledge Base for Individuals with Coinfection of HIV and SARS-CoV-2: EHR-based Data Mining
Sponsor: National Institute of Allergy & Infections Diseases (NIAID)/NIH
Total Projected: $408,619
Project Years: 2

Koger Center

Koger Center
Magradey, Karen

Title: "Behind the Scenes"-Arts Education Project
Sponsor: SC Arts Commission
Total Projected: $13,048
Project Years: 1

College of Nursing

Nursing
Magwood, Gavenell

Title: Improving the Collaborative Health of Minority COVID-19 Survivor & Carepartner Dyads Through Interventions Targeting Social and Structural Health Inequities
Sponsor: Department of Health and Human Services/NIH
Total Projected: $2,569,489
Project Years: 4
College of Arts and Sciences

History

Matthews, Marty

Title: The Papers of William Short: A Digital Selective Documentary Edition
Sponsor: The National Historical Publications and Records Commission (NHPRC)
Total Projected: $110,000
Project Years: 1

College of Arts and Sciences

Psychology

McQuillin, Samuel

Title: Strengthening and Expanding School Mental Health by Integrating Community Mentors in School Problem Solving Teams
Sponsor: USC Educational Foundation/The Duke
Total Projected: $580,000
Project Years: 3

College of Arts and Sciences

Criminology & Criminal Justice

Metcalfe, Christi

Title: The availability of indigent defense in North Carolina and its relationship with local jail populations and pretrial case decisions
Sponsor: North Carolina Office of Indigent Defense Services
Total Projected: $9,973
Project Years: 1
College of Arts and Sciences

School of Earth, Ocean & Env.

Meyer-Gutbrod, Erin

**Title:** Assessing Population Effects of Offshore Wind Development on North Atlantic Right Whales

**Sponsor:** University of St. Andrews/DOI

**Total Projected:** $14,833

**Project Years:** 2

College of Arts and Sciences

Baruch Institute

Morris, James

**Title:** Model Evaluation of Poplar Island Responses to Rising Sea Level

**Sponsor:** Maryland Environmental Service

**Total Projected:** $59,689

**Project Years:** 1

College of Arts and Sciences

Baruch Institute

Morris, James

**Title:** "Collaborative Research: Not all nitrogen is created equal: Quantifying the effects of different nitrogen forms on marsh persistence."

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

**Total Projected:** $234,022

**Project Years:** 3
Office of Research
IT and Data Management Office

University of SC Beaufort

BFT Hospitality Management
Olivetti, Keri

Title: Vision for the Future: A Collaboration Between USC Beaufort and the Town of Hilton Head Island
Sponsor: SCRF/Town of Hilton Head Island
Total Projected: $190,094
Project Years: 1

University of SC Upstate

UPS Achieve
Oswald-Hensley, Anna

Title: ACHIEVE 2022-23
Sponsor: Upstate Workforce Investment Act/DOL
Total Projected: $465,794
Project Years: 1

University of SC Beaufort

BFT Natural Sciences
Pettay, Daniel

Title: Establishing a Continuous Environmental Monitoring Station for the Chechessee River in the Port Royal Sound Estuary
Sponsor: Port Royal Sound Foundation
Total Projected: $10,000
Project Years: 1
College of Social Work

Social Work - Dean’s Office

Reese, Lenora

Title: Lipscomb Foundation Proposal - Recipient Organization Capacity Building Initiative
Sponsor: USC Educational Foundation/The Lipscomb Family Foundation
Total Projected: $36,490
Project Years: 1

College of Arts and Sciences

Psychology

Roberts, Jane

Title: Autonomic and Sensory Dysfunctions in FMR1 Conditions: Development, Mechanisms and Consequences
Sponsor: National Institute of Child Health & Human Development (NICHD)/NIH
Total Projected: $3,215,991
Project Years: 5
School of Medicine

MDC Ctr Disability Resources

Rotholz, David

**Title:** SC Developmental Disability Council Professional Services  
**Sponsor:** SC Developmental Disability Council/ACL/HHS  
**Total Projected:** $25,052  
**Project Years:** 1

School of Medicine

MDC Ctr Disability Resources

Rotholz, David

**Title:** South Carolina Youth in Transition Training Program  
**Sponsor:** SC Family Connections/HHS  
**Total Projected:** $35,000  
**Project Years:** 1

School of Medicine

MDC Ctr Disability Resources

Rotholz, David

**Title:** South Carolina University Center for Excellence in Developmental Disabilities  
**Sponsor:** Administration on Community Living/HHS  
**Total Projected:** $2,888,675  
**Project Years:** 5
School of Medicine

MDC Ctr Disability Resources

Rotholz, David

Title: Training Programs and Technical Assistance for Staff
Sponsor: SC Department of Disabilities and Special Needs
Total Projected: $316,700
Project Years: 1

School of Medicine

MDC Ctr Disability Resources

Rotholz, David

Title: Provision and Training and Certification for Self-Directed Attendant Care for ID/DD and HASC Waiver Participants
Sponsor: SC Department of Disabilities and Special Needs
Total Projected: $200,000
Project Years: 1

School of Law

Law - Dean's Office

Samuels, Joel

Title: Sri Lanka Efficient and Effective Justice (EEJ) subaward from Chemonics International Inc.
Sponsor: Chemonics International Inc./USAID
Total Projected: $188,482
Project Years: 1
College of Engineering & Comp.

Civil & Environmental Eng.

Sasanakul, Inthuorn

Title: Dynamic Properties of Mine Tailings: Aurora Settling Basin
Sponsor: Golder Associates, Ltd
Total Projected: $16,320
Project Years: 3

Hosp., Retail, & Sport Mgmt

Hotel, Restaurant & Tour Mgmt

Schroeder, Ashley

Title: DMOcracy - A Global Study of Best Practices for Partnering with Local Residents & Industry
Sponsor: Miles Partnership
Total Projected: $7,568
Project Years: 1

University of SC Beaufort

BFT Math & Comp. Science

Sevim, Volkan

Title: Mathematics Opportunities in the Summer (MOS): USCB Summer Math Camp for High School Students
Sponsor: Community Foundation of the Lowcountry
Total Projected: $8,000
Project Years: 1
College of Arts and Sciences

Anthropology

Simmons, Kimberly

Title: Ethnographic Overview and Assessment of Charles Pinckney National Historic Site and Fort Sumter and Fort Moultrie National Historical Park

Sponsor: National Park Service/DOI
Total Projected: $139,250
Project Years: 2

College of Arts and Sciences

Baruch Institute

Smith, Erik

Title: North Inlet - Winyah Bay National Estuarine Research Reserve FY22 Operations Award

Sponsor: National Ocean Service (NOS)/NOAA/DOC
Total Projected: $780,500
Project Years: 1

Arnold School of Public Health

Center for Community Health Alignment

Smithwick, Julie

Title: Community Health Worker Institute Phase Two Proposal BCBSFSC

Sponsor: SC Research Foundation (SCRF)/BCBS Foundation of SC
Total Projected: $600,000
Project Years: 3
College of Social Work

Child and Family Studies, Center for

Soto-Ramirez, Nellis

Title: 2021 National CASA/GAL Annual Survey Data Analysis and Reporting Project
Sponsor: National Court Appointed Special Advocates (CASA) & Guardian ad Litem (GAL)/DOJ
Total Projected: $25,048
Project Years: 1

School of Medicine

Basic Science Research

Spinale, Francis

Title: IPA - Stephanie Samani
Sponsor: Columbia VA Healthcare System/VA
Total Projected: $104,128
Project Years: 2

Arnold School of Public Health

Health Prom., Educ. & Behavior

Thrasher, James

Title: Understanding barriers and facilitators to implementation and enforcement of loose cigarettes and bidis sale ban in India using a qualitative approach
Sponsor: John Hopkins University
Total Projected: $18,250
Project Years: 1
School of Medicine (Grvl)

Medicine Greenville

Trilk, Jennifer

Title: Evaluating the Implementation and Cost of Integration of a Clinic-Community Physical Activity Model into a Major Health System

Sponsor: USC Educational Foundation/The Duke Endowment

Total Projected: $400,000

Project Years: 2

Darla Moore School of Business

Moore Sch - Div. of Research

Von Nessen, Joseph

Title: Charles River Laboratories International: Economic Impact Analysis

Sponsor: Charles River Laboratories International

Total Projected: $25,000

Project Years: 1

Darla Moore School of Business

Moore Sch - Div. of Research

Von Nessen, Joseph

Title: Charleston County Economic Development

Sponsor: Charleston County Economic Development Department

Total Projected: $72,550

Project Years: 1
Collge of Arts and Sciences

Chemistry & Biochemistry

Wang, Qian

Title: Synthesis of Starting Materials of Glycolipids and Gangliosides
Total Projected: $16,320
Project Years: 2

College of Engineering & Comp.

Mechanical Engineering

Wang, Yi

Title: Parametric Reduced Order Models-based Uncertainty Quantification in Aeroelasticity
Sponsor: CFD Research Corporation/NASA
Total Projected: $250,009
Project Years: 2

College of Engineering & Comp.

Mechanical Engineering

Wang, Yi

Title: A Deep Learning Framework for Real-Time Health and Security Monitoring and Diagnosis of Manufacturing Systems Based on Energy Consumption Auditing
Sponsor: CFD Research Corporation/USAF
Total Projected: $359,892
Project Years: 2
College of Engineering & Comp.

Civil & Environmental Eng.

Ziehl, Paul

Title:  Bovine Collogen DSC Trials
Sponsor:  Devro, Inc
Total Projected:  $4,443
Project Years:  1

College of Engineering & Comp.

Civil & Environmental Eng.

Ziehl, Paul

Title:  Thermoplastic Composite Welded Assemblies
Sponsor:  Advance Technology International (ATI)/ONR/DOD
Total Projected:  $30,000
Project Years:  2