

University of South Carolina — June 2024 New Grant Awards Report

PI's College	PI's Department	PI Name	Award Title	Sponsoring Agency	Award Total
Arnold School of Public Health					
	Environmental Health Sciences				
		<i>Cai, Guoshuai</i>	<i>Metabolic Control of Vascular Smooth Muscle Cell Plasticity</i>	University of Missouri/NIH	7,497
	Exercise Science				
		<i>Armstrong, Bridget</i>	<i>Causes and Consequences of Preschooler's Digital Media Use: The Role of Sleep, Physical Activity, Sedentary Behavior and Social Emotional Health</i>	National Institute of Child Health & Human Development (NICHD)/NIH	3,205,244
	Health Prom., Educ. & Behavior				
		<i>Frongillo, Edward</i>	<i>What is the relationship of cross-program utilization of Medicaid, SNAP, and WIC with diet quality and weight status of low-income children?</i>	UC Davis/Robert Wood Johnson Foundation	32,292
	PASOS				
		<i>Munoz, Agner</i>	<i>Countdown to Kindergarten Community Partners Funding Opportunity Summer 2024</i>	First Steps South Carolina	10,000
College of Arts and Sciences					
	Baruch Institute				
		<i>Smith, Erik</i>	<i>From maps to vision: Developing examples of site-specific nature-based solutions to increase climate resilience in Georgetown, South Carolina</i>	NOS Office for Coastal Management (OCM)/NOAA/DOC	398,411
	Biological Sciences				
		<i>Ellermann, Melissa</i>	<i>Effects of host endocannabinoid signaling on Enterobacteriaceae infection.</i>	National Institute of Allergy and Infectious Diseases (NIAID)/NIH	2,836,269
	Chemistry & Biochemistry				
		<i>Greytak, Andrew</i>	<i>Achieving structurally indexed measures of nanocrystal surface reactivity toward advanced applications</i>	National Science Foundation (NSF)	530,909
	English				
		<i>Dubinsky, Stanley</i>	<i>(PI: James Crews) Wordification: A Dialect-Based Teaching Approach</i>	College of Charleston/SC Space Grant Consortium/NASA	6,000
	Geography				
		<i>Nagel, Caroline</i>	<i>The Influence of Christian Geopolitical Imaginaries in Missionary Intercultural Training</i>	Religious Research Association, Inc.	2,000
College of Education					
	Educational & Developmental Science				
		<i>Plotner, Tony</i>	<i>Project Invest: Maximizing Career Opportunities through Industry Recognized Credentials for College Students with Intellectual Disabilities</i>	SC Developmental Disabilities Council/HHS	61,808

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College of Nursing				
	Nursing			
		<i>Adams, Swann</i>	<i>Advance care planning and end of life in cognitively impaired older adults</i>	Clemson University/Alzheimer's Association 53,997
Darla Moore School of Business				
	Moore Sch - Management			
		<i>Whitener, Kathryn</i>	<i>Relentless Challenge Grant: Opportunity Workshops 2024</i>	South Carolina Department of Commerce Office of Innovation 30,000
	Moore Sch - Div. of Research			
		<i>Markus, Stanislav</i>	<i>Agreement on Co-Financed Research concerning (Tycoon Candidates: Why Wealthy Business Candidates Get Elected for Office and How it Matters)</i>	Copenhagen Business School/Danish Research Council 35,227
		<i>Ozturk, Orgul</i>	<i>Evaluation of State-Funded Full-Day Four-Year-Old Kindergarten (CERDEP) – Education Oversight Committee – Technical</i>	SC Education Oversight Committee 147,424
		<i>Von Nessen, Joseph</i>	<i>REV Federal Credit Union: 2024 Economic Impact Analysis</i>	REV Federal Credit Union 58,700
	Small Business Dev. Ctr.			
		<i>Abraham, Michele</i>	<i>SC Small Business Development Centers Program Announcement - SBA 2024 Funding Opportunity (State Director's Office - Lead Center)</i>	US Small Business Administration (SBA) 1,994,745
Economic Engagement				
	Ofc of Economic Engagement			
		<i>Hardaway, Chad</i>	<i>Apex Accelerator</i>	Office of Small Business Programs (OSBP)/DOD 175,779
Koger Center				
	Koger Center			
		<i>Magradey, Karen</i>	<i>Koger Center for the Arts 23-24 Season</i>	SC Research Foundation (SCRF)/City of Columbia 25,000
Law Enforcement & Safety				
	UNIVERSITY POLICE DEPARTMENT			
		<i>Birnie, Stephen</i>	<i>Bulletproof Vest Partnership 2023</i>	Office of Highway Safety and Justice Programs (OHSJP)/SCDPS/DOJ 1,784
Molinaroli College of Engineering & Computing				
	Chemical Engineering			
		<i>Lauterbach, Jochen</i>	<i>Modular Direct Air Capture of carbon dioxide using waste materials</i>	SC Research Authority (SCRA) 15,000

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		<i>Liu, Chang</i>	<i>Rapid Culture-Independent Detection of Sepsis Causing Microorganism Directly from Blood</i>	National Institute of General Medical Sciences (NIGMS)/NIH	1,783,876
		<i>Meekins, Benjamin</i>	<i>Direct Seawater Electrolysis using Polybenzimidazole Membranes</i>	Office of Naval Research (ONR)/DOD	615,000
		<i>Mustain, William</i>	<i>Scaleup and Demonstration of a Direct Seawater Electrolyzer</i>	SC Research Authority (SCRA)	15,000
		<i>Peng, Zhenmeng</i>	<i>Flow-cell Assisted Softening Technology (FAST): An Economical and Eco-friendly Solution for Whole Home Water Treatment</i>	WaterUS LLC/NSF	70,000
		<i>Ritter, James</i>	<i>Structured Adsorbent Material Testing and Evaluation</i>	W.L. Gore & Associates	190,000
	Civil & Environmental Eng.				
		<i>Matta, Fabio</i>	<i>Durability and Cost-Benefit Assessment of Innovative Materials for Bridge Deck Maintenance and Construction</i>	SC Department of Transportation (SCDOT)/FHWA	904,138
	IIT - Engineering				
		<i>Hikmet, Neset</i>	<i>Graduate Student support for trial of diet in individuals enrolled in intensive cardiac rehabilitation</i>	Connecting Health Innovations, LLC	13,183
	Mechanical Engineering				
		<i>Banerjee, Sourav</i>	<i>Physics Deep-link and Digital Twin for Structural Health Monitoring of Naval Structures</i>	Office of Naval Research (ONR)/DOD	450,000
		<i>Downey, Austin</i>	<i>Artificial Intelligence for Anomaly Detection in Laser Powder Bed Fusion Additive Manufacturing</i>	College of Charleston/NASA	35,000
		<i>Gross, Andrew</i>	<i>Creep Testing of W-Re-Ta-Mo High Entropy Alloy - TOA Number: 0000670683</i>	Battelle Savannah River Alliance, LLC (BSRA)/SRNL/DOE	70,000
		<i>Lee, Dongkyu</i>	<i>CAREER: Overcoming the trade-off between thermopower and conductivity in transition metal oxides</i>	National Science Foundation (NSF)	619,214
		<i>Lee, Junsoo</i>	<i>(PI: Mattie Eckenrode) SC Space Grant framework for analyzing and designing control architecture in cooperative heterogeneous multi-agent systems, integrating aerial and ground vehicles</i>	College of Charleston/SC Space Grant Consortium/NASA	7,500
		<i>Shazly, Tarek</i>	<i>Image-based estimation of left ventricular myocardial stiffness</i>	SC Research Authority (SCRA)	15,000
		<i>Sockalingam, Subraman</i>	<i>A Combined Digital Image Correlation + Finite Element Approach to Characterize Traction-Separation Relations for Composite Material Interfaces</i>	College of Charleston/SC Space Grant Consortium/NASA EPSCoR	35,000

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Office of the Provost					
	Provost				
		Gibson, Robert	Anne Frank Summer Program for Youth (2023)	SC Arts Commission	11,687
School of Law					
	Law - Dean's Office				
		Park, Bryant	SC Bar Foundation Public Interest Fellowship - FY2025	SC Bar Foundation	10,034
		Wasilczuk, Madalyn	Pregnancy Prosecution Study	Pregnancy Justice, Inc./Confidential	215,346
School of Medicine					
	Basic Science Research				
		Bonilha, Leonardo	Brain Connectivity Supporting Language Recovery in Aphasia	NIH	545,747
		Wenceslau, Camilla	Reprogramming endothelial cells to prevent and treat Alzheimer disease (AD) and Hypertension	National Institute on Aging/NIH	409,750
	MDC Ctr Disability Resources				
		Rotholz, David	IMPACT SC Self-Advocacy Initiatives	SC Development Disabilities Council/HHS	41,447
			SC Developmental Disability Council Professional Services	SC Developmental Disability Council/ACL/HHS	49,461
	Medicine, Sch of - Student Affairs				
		Rhinehart, Robert	Finding Your Future	SC Center for Rural and Primary Healthcare/SCDHHS	40,750
	Path, Microbio. & Immunology				
		Bullard, Brooke	(PI - Brooke Bullard) Benefits of panaxynol on gut resilience in colitis	National Center for Complementary & Integrative Health (NCCIH)/NIH	115,059
	Pharm., Physiology & Neuroscience				
		Reagan, Lawrence	IPA for Jennifer Woodruff	WJB Dorn VA Medical Center/VA	173,600
School of Medicine (Grvl)					
	Medicine Greenville				
		Trilk, Jennifer	Creating Pathways to Advance Lifestyle Medicine Training into Undergraduate Medical Education, Part II	American College of Lifestyle Medicine (ACLM)	154,489
School of Music					
	Music				
		Grgic, Mak	South Carolina Guitar Teachers' Summer Development	South Carolina Arts Commission/NEA	21,250

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University of SC Upstate					
	UPS College of Education				
		<i>Whitlock, Reta (Ugena)</i>	<i>Grow Your Own District 2 Funds</i>	Spartanburg School District Two	300,000
	UPS INSTITUT EFFECTIVENESS & RESEARC				
		<i>Karls, Amanda</i>	<i>Urban Food Forest USC Upstate</i>	SC Forestry Commission/USDA	45,988
	UPS Nursing				
		<i>Dunlap, Shirleatha</i>	<i>USC Upstate Nurse Faculty Loan Program 2024-2025</i>	Health Resources & Services Administration (HRSA)/HHS	115,653