

## University of South Carolina — January 2025 New Grant Awards Report

PI's College	PI's Department	PI Name	Award Title	Sponsoring Agency	Award Total
Arnold School of Public Health					
	Applied Research & Evaluation (CARE)				
		Workman, Lauren	Healthy Palmetto Evaluation 2024-2025	South Carolina Hospital Association (SCHA) Foundation	30,940
	Environmental Health Sciences				
		Baalousha, Mohammed	Collaborative Research: Rapid: Transformation and mobilization of redox-sensitive metals due to the Park Fire	National Science Foundation (NSF)	10,430
		Bowes, Devin	Developing an empirical model to support seamless integration of wastewater-based epidemiology into the chronic disease care model	Prisma Health	19,739
	Exercise Science				
		Arent, Shawn	An Evaluation of the Effects of Kratom on Perceived Pain and Performance Following a Muscle Damaging Protocol" Randomize, Double-Blind, Placebo Controlled Clinical Trial	NP Pharma Holdings, LLC	656,325
	Health Prom., Educ. & Behavior				
		Bornstein, Marta	PRISMA Seed Grant: Understanding fertility care decision making among sexual and gender minorities in South Carolina	PRISMA Health	15,917
	Health Services Policy & Mgmt				
		Chen, Brian	PRISMA Seed Grant: The ARCHIV Study – Assessing the Completeness of EHR data in Capturing Prescription and Non-Prescription Polypharmacy Burden in People Living with HIV	PRISMA Health	14,957
		Crouch, Elizabeth	Expanding access to Culturally Tailored HIV and STI Prevention Services in the Rural South through Innovative Partnerships	National Association of County & City Health Officials (NACCHO)/HHS	200,000
		Hair, Nicole	Long COVID, Economic Outcomes, and SSA Program Participation	University of Wisconsin RDRC/SSA	234,244
College of Arts and Sciences					
	Baruch Institute				
		Smith, Erik	Continued capacity building at the North Inlet – Winyah Bay NERR for conservation and restoration	National Oceanic & Atmospheric Administration (NOAA)/DOC	502,459
	Mathematics				
		Yee, Sean	Collaborative Research: Establishing Networked Improvement Communities of STEM Educators Actively Engaging Students through Peer Mentoring	National Science Foundation (NSF)	990,000
	Political Science				

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		Searles, Kathleen (Katie)	NSF Convergence Accelerator Track F: Building Trust in Communication Systems by Addressing Misinformation-Driven Online Abuse and Harassment	George Washington University/NSF	74,825
	Psychology				
		Arheix-parras, Sophie	Repetitive Transcranial Magnetic Stimulation to Improve Lexicosemantic Impairments in Post-stroke Aphasia	National Aphasia Association (NAA)	10,000
	School of Earth, Ocean & Env.				
		Frost, Daniel (Dan)	Operation of the Mid-America Integrated Seismic Network – 2025-2029 - USC	U.S. Geological Survey (USGS)/DOI	89,000
		Romero, Isabel	DEEPEND-RESTORE II: Trends and Drivers of the Pelagic Gulf of Mexico	Nova Southeastern University, Inc./NOAA/DOC	221,458
	Theatre and Dance				
		Whitehead, Dustin	Get on Set - 2025	SC Film Commission - SC Department of Parks Recreation and Tourism	250,000
College of Information & Comm.					
	School of Information Sciences				
		Moore, Jennifer	Demonstrating with Data: An Evidence-based Practice Curriculum for School Librarians	Institute of Museum and Library Services (IMLS)	190,918
College of Nursing					
	Biobehavioral Health & Nursing Science				
		Kazemi, Donna	STTR: MiREA, a mHealth intervention to Reduce Health Disparities by Improving Equitable Access to Mandated College Students with Problematic Alcohol and Cannabis Use	mHealth Systems, Inc./NIMH/NIH	35,841
	Nursing				
		Andrews, Jeanette	Expanding SC Nursing Workforce	Health Resources & Services Administration (HRSA)/HHS	3,010,000
College of Pharmacy					
	Drug Discovery & Biomed Sci.				
		Banister, Carolyn	PRISMA Seed Grant: Salivary Biomarkers as Indicators for Concussion Diagnosis: A Non-Invasive Approach	PRISMA Health	20,000
		Broude, Eugenia	Nanoparticle formulation of Mediator kinase inhibitor for the treatment of peritoneal ovarian cancer	Sennex Biotechnology Inc./NCI/NIH	36,481
		Kiaris, Hippokratis	In vivo assessment of the efficacy of DTCCL8, a cytotoxic CCL8 analog	South Carolina Research Authority (SCRA)	15,000
		Xu, Peisheng	PD-L1 Nano-ERASER for cancer therapy	South Carolina Research Authority (SCRA)	15,000

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College of Social Work					
	Families in Society, Institute				
		Gareau, Sarah	Supporting Providers on a Path Toward Maternal Health Equity: Creating, Implementing and Evaluating the Voices/Voces Toolkit	SC Center for Rural and Primary Healthcare/SCDHHS	200,000
	Social Work - Dean's Office				
		Baughman, Amber	Impact of Multisystemic Therapy (MST) on High-Risk Youth in South Carolina with Considerations for the Impact of Attrition on Disadvantaged Youth.	USC Educational Foundation/The Duke Endowment	313,000
Darla Moore School of Business					
	Moore Sch - Div. of Research				
		Ozturk, Orgul	Evaluation of the Economic and Social Costs of Expiring Subsidies for Marketplace Health Insurance Plans in South Carolina	SC Institute of Medicine and Public Health	17,200
		Von Nessen, Joseph	Southern Carolina Regional Development Alliance: Economic Impact Analysis	Southern Carolina Regional Development Alliance	20,000
Division of Student Affairs					
	Substance Abuse and Prevention				
		Hourigan, Aimee	Harm Reduction Services 2024-2025	SC Department of Alcohol & Other Drug Abuse Services (DAODAS)/SAMHSA/HHS	4,300
Economic Engagement					
	Ofc of Economic Engagement				
		Salazar, Kyle	SC Department of Commerce SC APEX Accelerator - Matching funds for 10014033	SC Department of Commerce	170,000
Molinaroli College of Engineering & Computing					
	Chemical Engineering				
		Meekins, Benjamin	Nuvera Fuel Cells, LLC - December 2024 (2 samples)	Nuvera Fuel Cells, LLC	1,970
			JTEKT/Celadyne/SC-Fraunhofer Alliance: Bipolar Plate Manufacturing for Water Electrolyzers - Company Portion	JTEKT North America Corporation - Fraunhofer Program	22,500
			JTEKT/Celadyne/SC-Fraunhofer Alliance: Bipolar Plate Manufacturing for Water Electrolyzers - Celadyne Portion	Celadyne Technologies, Inc. - Fraunhofer Program	22,500
		Mustain, William	BIL - Durable, Low-Cost, Manufacturable AEM Electolyzer Components	Georgia Institute of Technology/DOE	1,100,000
		Uline, Mark	Automated Interview Development	Defense Counterintelligence and Security Agency (DCSA)/DOD	2,990,853
	Civil & Environmental Eng.				

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		Viparelli, Enrica	Modeling Long Runout of Turbidity Currents with an Innovative Two-Layer Approach	American Chemical Society (ACS)	125,000
	Computer Science & Engineering				
		Srivastava, Biplav	EAGER: NAIRR Pilot: Demonstrating a Compact Foundation Model for Planning-Like(PL) Tasks for Next Generation Trusted Applications	National Science Foundation (NSF)	300,000
	Electrical Engineering				
		Nasiri, Adel	GR-25-08- A Modular Solid-State Transformer (SST) Using 10kV Switching Devices	University of Arkansas/GRAPES I/UCRC	77,662
	Mechanical Engineering				
		Alshareef, Ahmed	R01: Biomechanics of the Human Brain During High-Severity Impacts: A Multimodal Approach	National Institute of Neurological Disorders and Stroke (NINDS)/NIH	2,593,202
		Huang, Xinyu	Analyzing the combustion behavior of woven polyester fabric -- SAGE Automotive Interiors	SAGE Automotive Interiors -- Fraunhofer	80,000
School of Medicine					
	Cell Biology & Anatomy				
		Azhar, Mohamad	Transformation of metal oxide nanomaterials in wildland-urban interface fires causes congenital heart disease	National Institute of Environmental Health Sciences (NIEHS)/NIH	409,750
	Medicine - Dean's Office				
		Ray, Donna	Food is Fun: Developing Leaders through Food Insecurity Service Learning and Leadership	Alpha Omega Alpha Honor Medical Society (A?A)	9,000
	Path, Microbio. & Immunology				
		Oskeritzian, Carole	PRISMA Seed Grant: Development of a noninvasive swabbing method for colonic polyp detection	Prisma Health	3,415
School of Medicine (Grv)					
	Medicine Greenville				
		Blackwell, Krista	Revamping the Pre-Matriculation Education Partnership Pathway (P3) Program to increase the diversity of medicine in South Carolina	National Board of Medical Examiners (NBME)	75,000
School of Music					
	Music				
		Grgic, Mak	FY 24/25 Arts Project	SC Research Foundation (SCRF)/South Carolina Arts Commission	2,250
University of SC Beaufort					
	BFT Natural Sciences				

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		<i>Pettay, Daniel</i>	<i>Support to the Port Royal Sound Water Quality Monitoring Network</i>	<i>Port Royal Sound Foundation (PRSF)</i>	25,000
	BFT Nursing & Health Professions				
		<i>Gill, Diana</i>	<i>Support to the Southeast USDA Regional Food Business Center</i>	<i>LOCUS Community Focused Capital/USDA AMS/USDA</i>	2,400,000
University of SC Union					
	UN PALMETTO COLLEGE				
		<i>Edwards, Cheryl</i>	<i>Chester Healthcare Foundation Proposal</i>	<i>SC Research Foundation (SCRF)/Chester Healthcare Foundation</i>	10,350