

## University of South Carolina — November 2023 New Grant Awards Report

PI's College	PI's Department	PI Name	Award Title	Sponsoring Agency	Award Total
<i>Academic Support Services</i>					
	<i>Office of Sustainability</i>				
		<i>Cook, Larry</i>	<i>S.C. DHEC Collegiate Recycling Grant for Fiscal Year 2024</i>	SC Department of Health & Environmental Control (DHEC)	10,000
<i>Arnold School of Public Health</i>					
	<i>Environmental Health Sciences</i>				
		<i>Lead, Jamie</i>	<i>A nano-enabled approach to the aqueous phase removal of Karenia brevis; a mesocosm study</i>	Mote Marine Laboratories/FWRI/FWC	82,000
	<i>Exercise Science</i>				
		<i>Moore, Robert</i>	<i>IPA Agreement with Dorn VA Medical Center - Modification - Robert Davis Moore</i>	WJB Dorn VA Medical Center/VA	33,947
		<i>Stewart, Jill</i>	<i>Behavioral and Neural Correlates of Post-Stroke Fatigue</i>	Texas Women's University/NIH	64,992
		<i>Torres-McGehee, Toni</i>	<i>Nutrition and Mental Health Related Factors Across Historically Black College and University Students: A Qualitative Study on the Dimensions Food Access</i>	Mid-Atlantic Athletic Trainers Association (MAATA)	1,000
		<i>Winkelmann, Zachary</i>	<i>(PI - Maegan Milliet) Interviews of Athletic Trainers' Following the Death of a Student-Athlete by Suicide</i>	NATA Research & Education Foundation	1,000
	<i>Health Prom., Educ. &amp; Behavior</i>				
		<i>Bornstein, Marta</i>	<i>Ohio Policy Evaluation Network (OPEN)</i>	University of Cincinnati/Anonymous (Non-Profit)	39,418
		<i>Frongillo, Edward</i>	<i>Food Safety Experiences Scale</i>	International Food Policy Research Institute (IFPRI)	21,168
		<i>Larson, Leila</i>	<i>(PI - Victoria Adebisi) Breastfeeding Decision-making and Practices Among Working Mothers and Role of External Influences in Urban Nigeria</i>	Nestle Foundation	20,000
<i>Athletics</i>					
	<i>Athletics General Fund</i>				

		<i>Lusk, Tyson</i>	<i>Continuation of College Grants of Primary Prevention Strategies</i>	SC Department of Alcohol and Other Drug Abuse Services (DAODAS)/ARPA/HHS	75,000
<i>College of Arts and Sciences</i>					
	<i>Baruch Institute</i>				
		<i>Kimball, Matthew</i>	<i>Evaluating oyster reefs as habitat: Comparing the utility of ecological metrics to assess ecosystem function</i>	University of Michigan/National Estuarine Research Reserve Association (NERRA)/NOAA	199,943
	<i>Biological Sciences</i>				
		<i>Speiser, Daniel</i>	<i>Mapping structural and functional connectivity of the distributed sensory system in chiton armor</i>	International Human Frontier Science Program (HSFP) Organization	351,000
	<i>Geography</i>				
		<i>Wang, Cuizhen (Susan)</i>	<i>South Carolina Water Resources Center Program Management</i>	Clemson University/DOI	33,448
	<i>Physics &amp; Astronomy</i>				
		<i>Monin, Alexander</i>	<i>Taming Non-Perturbative Dynamics in High Energy Physics</i>	National Science Foundation (NSF)	225,000
		<i>Pershyn, Yuriy</i>	<i>EFRI BRAID: Developing new classes of devices and networks based on computationally efficient history dependent neurons</i>	University of Texas San Antonio/NSF	490,000
		<i>Petrov, Alexey</i>	<i>Particle Physics Research Program</i>	US Department of Energy (DOE)	180,000
	<i>School of Earth, Ocean &amp; Env.</i>				
		<i>Hardy, Dean</i>	<i>RII Track-2 FEC: An interdisciplinary program for research, education, and outreach on climate change and adaptive resilience in the Yazoo - Mississippi Delta</i>	Mississippi State University/NSF	942,782
		<i>Ryker, Katherine</i>	<i>JSHS Regional Science Fair 2024</i>	National Science Teachers Association (NSTA)/DOD	34,150
<i>College of Education</i>					
	<i>Education - Dean's Office</i>				
		<i>Van Buren, Cindy</i>	<i>State Apprenticeship Expansion, Equity, and Innovation (SAEEI)</i>	Apprenticeship Carolina - SC Technical College System	135,000
	<i>Research, Eval., &amp; Measurement</i>				
		<i>Dickenson, Tammiee</i>	<i>Evaluation of the Young Men United Program Year 2</i>	United Way of the Midlands	60,500

		Lewis, Ashlee	South Carolina Arts Assessment Program	SC Department of Education (SCDE)	84,000
	SC School Improvement Council				
		Utter, Karen	Statewide Family Engagement Center program	Office of Innovation and Improvement/USDE	1,000,000
College of Engineering & Comp.					
	Chemical Engineering				
		Meekins, Benjamin	SBIR with Advanced Cooling Technologies (DE-FOA-0002555)	Advanced Cooling Technologies, Inc./DOE	65,003
		Uline, Mark	ARLIS Credibility Assessment Modernization Task Order	University of Maryland/DOD	342,672
	Computer Science & Engineering				
		Sheth, Amit	Artificial Intelligence Institute ("AIISC") of University of South Carolina ("USC") and WIPRO LIMITED ("Wipro")	Wipro Limited	24,000
	Electrical Engineering				
		Khan, Asif	"Understanding High Field Electron Transport and Trapping in UWBG AlGaIn Heterostructures."	University of Wisconsin-Madison/USAF/DOD	264,898
			High Thermal Conductivity AlN-SiC templates for Northrop Grumman GaN-AlGaIn SLCFET	Northrop Grumman/DARPA/DOD	427,678
	Mechanical Engineering				
		Knight, Travis	South Carolina Advanced Nuclear Technology Feasibility Study	USC Educational Foundation/Tides Foundation/Google	100,000
		Lee, Junsoo	(PI: Kavan Bojappa) Study of Particle Swarm Optimization for Multi-agent Dynamical Systems	College of Charleston/SC Space Grant Consortium/NASA	7,500
		Shazly, Tarek	(PI: Mia Kazel) SC Space Grant: Investigating the material properties of the snapping shrimp's helmets that dampen shockwaves	College of Charleston/SC Space Grant Consortium/NASA	7,500
		Wang, Yi	Software Tool for Surrogate Modeling and Design of Experiments	CFD Research Corporation/Office of the Secretary of Defense/DOD	400,033
College of Information & Comm.					
	School of Information Sciences				

		<i>Tu-Keefner, Feili</i>	<i>Creating a Sustainable and Sharable Disaster Information Services Repository Website</i>	MUSC/NLM/NIH	19,872
<i>College of Nursing</i>					
	<i>Nursing</i>				
		<i>Dawson, Robin</i>	<i>(PI: Mia Barron) Assessing and Improving Communication Among African American Individuals with Lupus</i>	University of Rochester/Lupus Foundation of America/	4,000
<i>College of Social Work</i>					
	<i>Families in Society, Institute</i>				
		<i>Lopez-DeFede, Ana</i>	<i>Leveraging Technology to Reduce Disparities and Improve Early Detection of and Timely Care for Postpartum Complications</i>	Medical University of South Carolina (MUSC)/PCORI	827,383
	<i>Social Work - Dean's Office</i>				
		<i>Flynn, Cynthia</i>	<i>Fatherhood FIRE/H2O Program Evaluation Year 4</i>	SC Center for Fathers and Families (SCCF)/HHS	109,733
<i>Darla Moore School of Business</i>					
	<i>Moore Sch - Div. of Research</i>				
		<i>Von Nessen, Joseph</i>	<i>SCA Regional Development Alliance: Jasper County Economic Impact Analysis</i>	SCA Regional Development Alliance	42,500
<i>Office of the Provost</i>					
	<i>Provost</i>				
		<i>Gibson, Robert</i>	<i>2023 Nonprofit Security Grant Program (NSGP)</i>	SCRF/South Carolina Law Enforcement Division (SLED)/DHS	149,973
<i>School of Law</i>					
	<i>Children's Law Center</i>				
		<i>Dhunjishah, L Michelle</i>	<i>South Carolina Senate Contract Addressing Minority Youth Contact with Law Enforcement: An Approach to Reducing Racial and Ethnic Disparities in the South Carolina Juvenile Justice System</i>	South Carolina Senate Office of Highway Safety and Justice Programs (OHSJP)/SCDPS/DOJ	475,000 68,544
<i>School of Medicine</i>					
	<i>Cell Biology &amp; Anatomy</i>				
		<i>Azhar, Mohamad</i>	<i>Targeted nanoparticle therapy for reversal of thoracic aortopathy (COBRE)</i>	Clemson University/NIH (COBRE)	50,000
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	<i>MDC Ctr Disability Resources</i>				
		<i>Rotholz, David</i>	<i>2023 SC Assistive Technology Leadership Conference</i>	SC Developmental Disabilities Council (SCDDC)/HHS	1,500

	<i>Path, Microbio. &amp; Immunology</i>				
		<i>Velazquez, Kandy</i>	<i>Development of Ojeok-san as a Safe and Effective Analgesic to treat Chronic Pain</i>	South Carolina Opioid Recovery Fund (SCORF)	184,826
<i>University of SC Aiken</i>					
	<i>AK Library</i>				
		<i>Harmon, Deborah</i>	<i>Proposal for continuation of contract for DOE-SR Public Reading Room</i>	Savannah River Nuclear Solutions, LLC (SRNS)/DoE	403,351
	<i>AK University Police</i>				
		<i>Lott, Nicholas</i>	<i>Aiken Scholars Academy School Resource Officer (SRO) Program</i>	SC Department of Public Safety (SC DPS)	135,601
<i>University of SC Upstate</i>					
	<i>UPS Academic Affairs Admin</i>				
		<i>Waldrop, Susannah</i>	<i>Avanzando Through College (2023-24)</i>	UnidosUS	20,000
	<i>UPS Inst. Effectiveness &amp; Research</i>				
		<i>Karls, Amanda</i>	<i>SC DHEC Collegiate Recycling Grant</i>	SC Department of Health & Environmental Control (DHEC)	10,000