

## University of South Carolina — September 2024 New Grant Awards Report

PI's College	PI's Department	PI Name	Award Title	Sponsoring Agency	Award Total
Academic Support Services					
	OFFICE OF SUSTAINABILITY				
		<i>Cook, Larry</i>	<i>S.C. DHEC Collegiate Recycling Grant for Fiscal Year 2025</i>	SC Department of Health & Environmental Control (DHEC)	10,000
Arnold School of Public Health					
	Center for Community Health Alignment				
		<i>Smithwick, Julie</i>	<i>SC Roadmap to Social Determinants of Health (SDoH) Phase 2</i>	USC Educational Foundation/The Duke Endowment	1,237,000
	Communication Sci & Disorders				
		<i>Neils-Strunjas, Jean</i>	<i>SC CREATE 2025</i>	SC Department of Education (SCDE)	309,996
	Environmental Health Sciences				
		<i>Porter, Dwayne</i>	<i>Continuing Support of the NOAA National Estuarine Research Reserve System Centralized Data Management Office</i>	NOS Office for Coastal Management (OCM)/NOAA/DOC	880,967
	Epidemiology & Biostatistics				
		<i>Liu, Jihong</i>	<i>Healthy Start Initiative – Eliminating Disparities in Perinatal Health (Subcontract to Prisma Health)</i>	Prisma Health-Midlands/HRSA	641,587
	Exercise Science				
		<i>Pellegrini, Christine</i>	<i>Examination of the Dose-Response Relationship Between Physical Activity and Arthritis-Attributable Outcomes (SIP 24-009)</i>	Centers for Disease Control and Prevention (CDC)/HHS	1,247,498
	Health Prom., Educ. & Behavior				
		<i>Friedman, Daniela</i>	<i>NIA Academic Leadership Career Award</i>	National Institute on Aging (NIA)/NIH	810,000
	Health Services Policy & Mgmt				
		<i>Brooks, John</i>	<i>IPA_ John M. Brooks, PhD Assignment Agreement: 24IPA2421327DPH</i>	Centers for Disease Control and Prevention (CDC)/HHS	29,488
College of Arts and Sciences					
	Anthropology				
		<i>Goldberg, Katherine</i>	<i>Cultural Map and Ethnographic Inventory of Reconstruction Era National Historical Park on St. Helena Island Proposal</i>	National Park Service (NPS)/DOI	76,440
	Baruch Institute				
		<i>Smith, Erik</i>	<i>Mingo Creek Tract for Black River State Park</i>	NOS Office for Coastal Management (OCM)/NOAA/DOC	1,500,000

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	Biological Sciences				
		Patel, Rekha	<i>Investigating PKR inhibitory activity of chemical compounds provided by Protekt Therapeutics using cell-based assays with dystonia cells.</i>	ProteKt Therapeutics Ltd.	45,000
		Richardson, Tammi	<i>CHIRRP: Exploring a Gullah-Geechee Community-Driven Effort to Mitigate Risks and Impacts of Coastal Flooding</i>	National Science Foundation (NSF)	94,053
	Chemistry & Biochemistry				
		Shustova, Natalia	<i>NSF Graduate Research Fellowship: Grace Thaggard</i>	National Science Foundation (NSF)	111,690
		Walters, Wendell	<i>Unraveling NH3 Chemical Sink Processes: Insights from Stable Isotopes</i>	National Science Foundation (NSF)	409,519
	History				
		Wilder, Colin	<i>Constitution Day lecture</i>	Jack Miller Center	2,500
	Mathematics				
		Thorne, Frank	<i>Conference: Number Theory Meetings in the Southeast</i>	National Science Foundation (NSF)	22,508
		Yee, Sean	<i>Supporting the Faculty Who Provide Teaching-Focused Professional Development to the Next Generation of College Mathematics Instructors</i>	National Science Foundation (NSF)	70,449
	Physics & Astronomy				
		Ilieva, Yordanka	<i>NSF-BSF: The Study of Nuclear Physics with Intermediate Energy Probes</i>	National Science Foundation (NSF)	1,500,000
	Psychology				
		Bradshaw, Jessica	<i>Equipment: MRI: Track 1 Acquisition of a Mobile Observation System for Neurodevelopment Research</i>	National Science Foundation (NSF)	1,399,302
			<i>NSF Graduate Research Fellowship: Tessa Djiko</i>	National Science Foundation (NSF)	123,670
		Vento, Peter	<i>NSF Graduate Research Fellowship: Jacob Watson</i>	National Science Foundation (NSF)	123,670
		Weist, Mark	<i>Expanding the John H. Magill School Behavioral Health Academy (SBHA)</i>	South Carolina Department of Health and Human Services (SCDHHS)	3,052,429
	School of Earth, Ocean & Env.				
		Bourbonnais, Annie	<i>NSF Graduate Research Fellowship: Melissa Shugart</i>	National Science Foundation (NSF)	130,965
College of Education					
	Child Development Res. Center				

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		<i>Googe, Heather</i>	<i>2024 SC Early Childhood Inclusion Conference</i>	SC Developmental Disabilities Council (SCDDC)/ACL/HHS	10,000
	Research, Eval., & Measurement				
		<i>Lewis, Ashlee</i>	<i>Evaluation of Arts Grow SC 24-25 (FY25)</i>	SC Arts Commission	275,000
College of Nursing					
	Nursing				
		<i>Adams, Swann</i>	<i>SIP 24-003: The South Carolina Cancer Prevention and Control Research Network IV - SCCPCR IV</i>	Centers for Disease Control and Prevention (CDC)/HHS	1,499,997
College of Social Work					
	Families in Society, Institute				
		<i>Lopez-DeFede, Ana</i>	<i>State Maternal Health Innovation &amp; Data Capacity Program</i>	SC Department of Health & Environmental Control (DHEC)/HRSA/HHS	2,978,788
Darla Moore School of Business					
	Moore Sch - Dean's Office				
		<i>Brown, Jessica</i>	<i>Big Daycare</i>	Washington Center for Equitable Growth	30,000
	Moore Sch - Div. of Research				
		<i>Ozturk, Orgul</i>	<i>Evaluation of the Economic and Social Costs of Poor Maternal and Infant Health Outcomes for South Carolina</i>	SC Institute of Medicine and Public Health	30,000
		<i>Von Nessen, Joseph</i>	<i>South Carolina State Housing Finance and Development Authority: Economic Impact Analysis (2024-2029)</i>	SC State Housing Finance and Development Authority	250,000
	Small Business Dev. Ctr.				
		<i>Featheringill, Paul</i>	<i>2023 Rural Microentrepreneur Assistance Program Grant</i>	Clemson University/USDA	44,650
Joseph F. Rice School of Law					
	Children's Law Center				
		<i>Black, Shelandra</i>	<i>South Carolina Senate Contract</i>	South Carolina Senate	475,000
			<i>Court Improvement Data FY25</i>	SC Court Administration/DHHS	147,000
			<i>Court Improvement Training FY25</i>	SC Court Administration/DHHS	160,000
			<i>Court Improvement Basic FY25</i>	SC Court Administration/DHHS	183,000
Molinaroli College of Engineering & Computing					
	Chemical Engineering				
		<i>Meekins, Benjamin</i>	<i>Nuvera Fuel Cells - 2 Samples - August 2024</i>	Nuvera Fuel Cells, LLC	1,700
		<i>Money, Jeremy</i>	<i>NSF Graduate Research Fellowship: Jeremy Money</i>	National Science Foundation (NSF)	117,710

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		Mustain, William	Fraunhofer: High Fidelity Digital Twins for Large Scale Energy Storage Batteries -- Pomega	Pomega Energy Storage Technologies, Inc	136,474
	Civil & Environmental Eng.				
		Qian, Yu	Discover Influential Geosocial Factors Aggravating Crossing Trespassing (DIGFACT)	Federal Railroad Administration/DOT	455,000
	Computer Science & Engineering				
		Agostinelli, Forest	NSF-BSF: RI: Small: Scalable Learning in Heuristic Search	National Science Foundation (NSF)	339,482
		Farkas, Csilla	Department of Defense Cyber Scholarship Program 2024-2025	Department of Defense (DOD)	284,126
		Sheth, Amit	SaTC: CORE: Small: Enhancing the Security and Mitigating Bias in Vision Language Models to Combat Hateful Image Generation and Detoxify Hateful Images	National Science Foundation (NSF)	600,000
		Zhang, Qi	Collaborative Research: RI: Small: Adapting Foundation Models for Multimodal Sequential Decision Making: New Focuses, Formalisms, and Methods	National Science Foundation (NSF)	279,399
	Electrical Engineering				
		Khan, Asif	Semiconductor Wafers Manufacturing Technology for Extreme Chips	Department of Commerce (DOC)	4,500,000
			Enabling Extreme Bandgap Electronics - EXBE - (Doping and Defect Control in Extreme Bandgap (EBG) Semiconductor Al <sub>x</sub> Ga <sub>1-x</sub> N)	North Carolina State University (NC State)/AFOSR/DOD	1,186,588
		Nasiri, Adel	Development of a Miniaturized AC/DC Converter-Phase III	DEFENSEWERX - ICWERX	171,400
	IIT - Engineering				
		Crichigno, Jorge	Collaborative Research: Cyber-Con2: Multi-sector Convergence to Advance the Preparation of Learners for OT and IT Cybersecurity Convergence Workforce	National Science Foundation (NSF)	650,000
	Mechanical Engineering				
		Chen, Fanglin	Efficient Electrochemical Denitration and Caustic Generation (EDCGe) System for Direct-Feed Waste Pretreatment to Accelerate the Hanford Mission and Operations	Battelle Savannah River Alliance (BSRA)/SNRL/DOE	175,000
		De Backer, Wout	NSF Graduate Research Fellowship: Patrick Bailey	National Science Foundation (NSF)	123,760
		Hu, Ming	AI Assisted Microfluidics for Precise Exosome Characterization in Cancer Diagnosis	College of Charleston/SC EPSCoR/NSF	25,000

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		<i>Sockalingam, Subraman</i>	<i>RFA-005 A Combined Digital Image Correlation + Explicit Finite Element Method Approach to Determine Rate Dependent Composite Material Properties for the LS-DYNA MAT213 Model</i>	College of Charleston/NASA	87,500
		<i>Wang, Yi</i>	<i>Enabling Trust in Engine Health Monitoring through Model Ensembles</i>	CFD Research Corporation/US Navy	40,000
Research, Vice President for					
	Sponsored Awards Management				
		<i>Coggins, Thomas</i>	<i>IACUC Program Support for Research Animal Facility</i>	US Department of Veterans Affairs	178,845
School of Medicine					
	Basic Science Research				
		<i>Toriello, Paul</i>	<i>Addictions Counselors for Rural Recovery (AC4RR)</i>	SC Center for Rural and Primary Healthcare (SCCRPH)/SCDHHS	199,998
	Family & Preventive Medicine				
		<i>Rhodes, Morgan</i>	<i>Learning Together: The I3 Collaborative to Support Family Medicine Residency Excellence</i>	ABFM Foundation, Inc.	75,000
	Path, Microbio. & Immunology				
		<i>Cardaci, Thomas</i>	<i>(PI - Thomas Cardaci) Impact of Obesity on Chemotherapy-induced muscle mitochondrial dysfunction</i>	National Cancer Institute (NCI)/NIH	78,898
University Libraries					
	Univ Libraries - Dean's Office				
		<i>Hoskins, Katherine (Kati</i>	<i>South Carolina Digital Newspaper Program</i>	National Endowment for the Humanities (NEH)	320,863
University of SC Aiken					
	AK Biology & Geology				
		<i>DeLaurier, April</i>	<i>Understanding the role of Hdacs in zebrafish craniofacial development</i>	National Institute of General Medical Sciences (NIGMS)/NIH	689,996
	AK College of Sciences and Eng				
		<i>Mckay, Scott</i>	<i>Cyber Workforce Pipeline to SRNS Phase I: Increase USCA Capacity to build a stronger cyber workforce</i>	Savannah River Nuclear Solutions (SRNS), LLC/DOE	234,997
University of SC Lancaster					
	LAN PALMETTO COLLEGE				
		<i>Ammons, Robert</i>	<i>Lancaster Promise Neighborhood</i>	Lancaster County Partners for Youth/USDE	161,000
University of SC Upstate					
	UPS Dept of Education				

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		<i>Herzberg, Tina</i>	<i>Project INSPIRE 2: Access and Equity in STEM Learning for Individuals who Read Braille</i>	US Department of Education (USDE)	1,034,983
	UPS INSTITUT EFFECTIVENESS & RESEARC				
		<i>Karls, Amanda</i>	<i>Collegiate Recycling Grant FY25</i>	Office of Solid Waste Reduction and Recycling - SC Department of Environmental Services (SCDES)	10,000
			<i>Harvest Gardens &amp; Urban Teaching Farm</i>	Natural Resources Conservation Service (NRCS)/USDA	90,000