

May 26, 2021 (revised)

The Office of Research and Economic Development is pleased to announce awards received by UNC Charlotte Researchers in the month of April, 2021.

Total amount awarded for the month of April was \$1,214,428

Fiscal Year To Date Total: \$48,714,083

Award Title	Amount	Investigators	PI Dept.	Sponsors
<b>Archaeology of Bara: Survey and Excavations in the</b>	\$2,498	<b>Principal Investigator (PI):</b> Ogundiran, Akinwumi	Africana Studies	<b>Sponsor:</b> National Geographic Society Education Foundation
<b>Asset-Based Civic Engagement Learning Development</b>	\$29,000	<b>Principal Investigator (PI):</b> White, Byron <b>Co-PI:</b> Johnson, Tamara	Urban Research & Comm Engagement	<b>Sponsor:</b> The Kettering Foundation
<b>CAREER: Stochastic forward and inverse problems involving dynamical systems</b>	\$86,594	<b>Principal Investigator (PI):</b> McGoff, Kevin <b>Co-PI:</b> Pugalee, David	Mathematics and Statistics	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Evaluate the impact of land-applied biosolids on the occurrence of per- and polyfluoroalkyl substances (PFAS) in North Carolina water sources</b>	\$101,792	<b>Principal Investigator (PI):</b> Sun, Mei	Civil and Environmental Engineering	<b>Sponsor:</b> North Carolina Department of Justice (NCDOJ)
<b>Future Teachers of North Carolina</b>	\$20,000	<b>Principal Investigator (PI):</b> Kissau, Scott <b>Co-PIs:</b> Lee, Shanique; Putman, Stephan	Deans Office College of Education	<b>Sponsor:</b> University of North Carolina System Office (UNC SysOff)
<b>In vitro and cellular tools for complex polysaccharide biosynthesis</b>	\$262,682	<b>Principal Investigator (PI):</b> Troutman, Jerry <b>Co-PI:</b> Williams, Tiffany	Chemistry	<b>Sponsor:</b> National Institutes of Health (NIH)
<b>Intelligent Power Stages</b>	\$50,000	<b>Principal Investigator (PI):</b> Parkhideh, Babak <b>Co-PIs:</b> LeClair, Andrew; Parkhideh, Babak; Shoubaki, Ehab; Gafford, James;	Electrical and Computer Engineering	<b>Sponsor:</b> Department of Energy (DOE) Oak Ridge National Laboratories <b>Prime Sponsor:</b> Department of Energy (DOE)

<b>Award Title</b>	<b>Amount</b>	<b>Investigators</b>	<b>PI Dept.</b>	<b>Sponsors</b>
<b>Investigating the Development of Digital Biomarkers with Wearable Devices and Artificial Intelligence in Alzheimer's Disease and other Neurological Disorders</b>	\$50,000	<b>Principal Investigator (PI):</b> Collins, Devin <b>Co-PI:</b> Ford, Colby	Ventureprise	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Mentoring Graduate Students and Establishing Co-Curriculum Development and Research at the University of Abuja</b>	\$15,400	<b>Principal Investigator (PI):</b> Ojaide, Tanure	Africana Studies	<b>Sponsor:</b> Institute of International Education, Inc. (IIE) <b>Prime Sponsor:</b> Carnegie Foundation
<b>MLWiNS: Democratizing AI through Multi-Hop Federated Learning Over-the-Air</b>	\$74,445	<b>Principal Investigator (PI):</b> Wang, Pu <b>Co-PIs:</b> Chen, Chen; Lee, Minwoo; Dorodchi, Mohsen	Computer Science	<b>Sponsor:</b> Intel Corporation
<b>Phase II IUCRC UNC Charlotte Site: Center for Visual and Decision Informatics (CVDI)</b>	\$97,912	<b>Principal Investigator (PI):</b> Dou, Wenwen <b>Co-PIs:</b> Thill, Jean-Claude; Dulin, Michael; Hadzikadic, Mirsad; Shehab, Mohamed; Ras, Zbigniew	Computer Science	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Rural Health Research Grant Program Cooperative Agreement</b>	\$25,000	<b>Principal Investigator (PI):</b> Arif, Ahmed	Public Health Sciences	<b>Sponsor:</b> University of Kentucky Research Foundation <b>Prime Sponsor:</b> DHHS Health Resources and Services Administration (HRSA)
<b>SAFE Charlotte - United Way Capacity Building</b>	\$25,000	<b>Principal Investigator (PI):</b> Anderson, Bridget <b>Co-PI:</b> Idzikowski, Sydney	Urban Institute	<b>Sponsor:</b> United Way of Central Carolinas
<b>SAFE Charlotte: Youth Program Assessment City of Charlotte Contract: SAFE Charlotte Professional Consulting Services: Recommendation 5</b>	\$85,600	<b>Principal Investigator (PI):</b> Thomas, Marye <b>Co-PIs:</b> McCarter, Susan; Idzikowski, Sydney	Urban Institute	<b>Sponsor:</b> City of Charlotte <b>Prime Sponsor:</b>

<b>Award Title</b>	<b>Amount</b>	<b>Investigators</b>	<b>PI Dept.</b>	<b>Sponsors</b>
<b>SBIR: A multi-site study to develop and validate a computerized functional capacity measure in individuals with Mild Cognitive Impairment.</b>	\$41,261	<b>Principal Investigator (PI):</b> Demakis, George	Psychological Science	<b>Sponsor:</b> VeraSci (formerly NeuroCog Trials) <b>Prime Sponsor:</b> National Institutes of Health (NIH)
<b>SBIR: Anti-reflective Surface for Infrared Optical Fiber Endfaces</b>	\$65,000	<b>Principal Investigator (PI):</b> Hutchens, Thomas	Physics and Optical Science	<b>Sponsor:</b> IRflex Corporation <b>Prime Sponsor:</b> Department of Defense (DOD) Department of the Navy (DN) Naval Air Systems Command (NAVAIR)
<b>SBTDC - Federal SBA CARES Act 2021</b>	\$91,494	<b>Principal Investigator (PI):</b> McIntire, Robin	Small Business Technology Development Center (SBTDC)	<b>Sponsor:</b> North Carolina Small Business and Technology Development Center (NC SBTDC) <b>Prime Sponsor:</b> US Small Business Administration (SBA)
<b>Tactical Team Behaviors in Partial-information Differential Games</b>	\$75,000	<b>Principal Investigator (PI):</b> Maity, Dipankar	Electrical and Computer Engineering	<b>Sponsor:</b> University of Pennsylvania <b>Prime Sponsor:</b> Department of Defense (DOD) Department of the Army (DA) Army Research Laboratory (ARL)
<b>This World in a Teacup: Chinese-American Tea Trade in the Nineteenth Century</b>	\$2,250	<b>Principal Investigator (PI):</b> Du, Dan	History	<b>Sponsor:</b> Massachusetts Historical Society <b>Prime Sponsor:</b> National Endowment for the Humanities (NEH)
<b>What Feeds Firestorms of Emotion? Emotion Regulation, Emotion Contagion, and Collective Behavior in Socio-Political Events</b>	\$13,500	<b>Principal Investigator (PI):</b> Levens, Sara <b>Co-PIs:</b> Shaikh, Samira; Gallicano, Tiffany	Psychological Science	<b>Sponsor:</b> Department of Defense (DOD) Department of the Army (DA) Army Research Office (ARO)