

September 9, 2021 (revised)

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

Total amount awarded for the month of May was \$5,187,599

Fiscal Year To Date Total: \$53,901,682

Award Title	Amount	Investigators	PI Dept.	Sponsors
2020-2021 NC Coaching, Mentoring, Performance Evaluation and Professional Development for Birth through Kindergarten Licensed Teachers Employed in Nonpublic School Classrooms	\$1,921,798	Principal Investigator (PI): Richard Lambert	Educational Leadership	Sponsor: North Carolina Department of Health and Human Services (NCDHHS)
Graduate Assistantship with Global Alliance for Behavioral Health and Social Justice	\$49,237	Principal Investigator (PI): Ryan Kilmer	Psychological Science	Sponsor: Global Alliance for Behavioral Health and Social Justice
Neurotropic Viral Infection in CNS Aging and Alzheimer's Disease	\$240,793	Principal Investigator (PI): Kristen Funk Co-PIs: Katie Reagin	Biological Sciences	Sponsor: Department of Health and Human Services (DHHS) National Institutes of Health (NIH)
Effects of Aging on Episodic Memory-Dependent Decision-Making	\$24,494	Principal Investigator (PI): Candace Brown	Public Health Sciences	Sponsor: Duke University Prime Sponsor: Department of Health and Human Services (DHHS) National Institutes of Health (NIH)
Louis Stokes STEM Pathways and Research Alliance: NCLSAMP for Minority Participation	\$85,494	Principal Investigator (PI): Banita Brown Co-PIs: Mary Stearns, Martha Bottia	College of Liberal Arts and Sciences	Sponsor: North Carolina Agricultural and Technical State University (NCAT) Prime Sponsor: National Science Foundation (NSF)
Migration and Changing Social Structures: Marshallese students and New Immigrant Destinations	\$29,624	Principal Investigator (PI): Elise Berman Co-PIs: Rebecca Roeder	Anthropology	Sponsor: National Geographic Society (NGS)
Design With Everyone	\$25,000	Principal Investigator (PI): Nadia Anderson	School of Architecture	Sponsor: National Endowment for the Arts (NEA)

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Resilient Community Microgrids with Dynamic Reconfiguration to Serve Critical Loads in the Aftermath of Severe Events	\$888,739	Principal Investigator (PI): Badrul Chowdhury Co-PIs: Valentina Cecchi, Robert Cox, Michael Mazzola	Electrical and Computer Engineering	Sponsor: Department of Energy (DOE)
Targeted field study of antibiotics and antibiotic resistance genes in North Carolina wastewater impacted streams	\$10,000	Principal Investigator (PI): Jacelyn Rice-Boayue Co-PIs: Mariya Munir	Engineering Technology and Construction Management	Sponsor: North Carolina State University (NCSU) Prime Sponsor: North Carolina State University (NCSU) Water Resources Research Institute (WRRI)
CAREER: AutoEdge: Deep Reinforcement Learning Methods and Systems for Network Automation at Wireless Edge	\$88,188	Principal Investigator (PI): Tao Han	Electrical and Computer Engineering	Sponsor: National Science Foundation (NSF)
IUCRC Phase III University of North Carolina at Charlotte: Center for Metamaterials (CfM)	\$50,000	Principal Investigator (PI): Ishwar Aggarwal Co-PIs: Tino Hofmann	Physics and Optical Science	Sponsor: National Science Foundation (NSF)
Collaborative Research: Learning Preferences and Domain Differences in Design Fixation	\$364,261	Principal Investigator (PI): John Gero	Computer Science	Sponsor: National Science Foundation (NSF)
RIG-I as a therapeutic target for bacterial CNS infection: A pilot study	\$151,000	Principal Investigator (PI): Morgan Johnson Co-PIs: Ian Marriott, Kirill Afonin	Biological Sciences	Sponsor: Department of Health and Human Services (DHHS) National Institutes of Health (NIH)
Tailoring partially coherent OAM beams for atmospheric propagation	\$44,088	Principal Investigator (PI): Gregory Gbur	Physics and Optical Science	Sponsor: Department of Defense (DOD) Department of the Air Force (DAF) Air Force Office of Scientific Research (AFOSR)
Ventureprise Visionary Award	\$25,000	Principal Investigator (PI): Devin Collins	Ventureprise	Sponsor: Small Business Administration (SBA)

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Exploring Accessible Costuming	\$800	Principal Investigator (PI): Allison Amidei	Theatre	Sponsor: Puffin Foundation West, Ltd. Prime Sponsor: Puffin Foundation
CDC NWSS COVID-19 surveillance pilot study in Wastewater Across NC Municipalities	\$13,000	Principal Investigator (PI): Mariya Munir	Civil and Environmental Engineering	Sponsor: University of North Carolina at Chapel Hill (UNC-CH) Prime Sponsor: Department of Health and Human Services (DHHS) Centers for Disease Control and Prevention (CDC)
Solar Energy Development Assistance to Poultry Growers in North Carolina	\$63,915	Principal Investigator (PI): Weimin Wang	Engineering Technology and Construction Management	Sponsor: US Department of Agriculture (USDA)
Fusing National and Local Health Data for Geospatial Analyses to Mitigate Motor Vehicle Crash Injury and Deaths from Alcohol and Substance Use	\$94,000	Principal Investigator (PI): Rajib Paul Co-PIs: Ahmed Arif	Public Health Sciences	Sponsor: American Public Health Association Prime Sponsor: Department of Health and Human Services (DHHS) Centers for Disease Control and Prevention (CDC)
Landscape Study: Services and Supports in Mecklenburg County, Prenatal through Age 3 - A project of the Social Aspects of Health Initiative	\$30,000	Principal Investigator (PI): Laura Armstrong Co-PIs: Ariana Shahinfar, Eric Delmelle, Joseph Kangmennaang, Stephanie Potochnick, Ryan Kilmer	Psychological Science	Sponsor: Mecklenburg County Smart Start Partnership for Children
Understanding Experiences of Vertical Transfer Students in North Carolina	\$456,788	Principal Investigator (PI): Mark D'Amico Co-PIs: Ryan Miller, Cathy Howell, Sandra Dika	Educational Leadership	Sponsor: John M Belk Endowment

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MCSA for Journal Bearing Fault Detection	\$40,707	Principal Investigator (PI): Robert Cox	EPIC	Sponsor: Electric Power Research Institute (EPRI)
Consortium for Research-Based and Equitable Assessments (CREA)	\$3,500	Principal Investigator (PI): Stephan Putman	Reading and Elementary Education	Sponsor: American Association of Colleges for Teacher Education (AACTE) Prime Sponsor: Bill and Melinda Gates Foundation
Business Realities of the Creative Community	\$14,490	Principal Investigator (PI): Bridget Anderson Co-PIs: Sydney Idzikowski	Urban Institute	Sponsor: Charlotte Is Creative
Geospike Prototype Performance Testing	\$3,800	Principal Investigator (PI): Tara Cavalline Co-PIs: Benjamin Smith	Engineering Technology and Construction Management	Sponsor: Geopier Foundation Company, Inc.
Sahas Raju - Energy Data Analytics Fellowship	\$12,175	Principal Investigator (PI): Robert Cox	EPIC	Sponsor: Duke University Prime Sponsor: Alfred P Sloan Foundation
Analyze adsorbable fluorine contents in samples from Battelle	\$3,600	Principal Investigator (PI): Mei Sun	Civil and Environmental Engineering	Sponsor: Battelle Prime Sponsor: Department of Energy (DOE) Department of Energy
Freedom School Evaluation 2021	\$52,109	Principal Investigator (PI): David Taylor	Reading and Elementary Education	Sponsor: Freedom School Partners
APIs and Data Formats for Program Analysis as Training Datasets	\$49,999	Principal Investigator (PI): Yonghong Yan	Computer Science	Sponsor: Department of Energy (DOE) Lawrence Livermore National Laboratory (LLNL) Prime Sponsor: Department of Energy (DOE) Office for Nuclear Security/National Nuclear Security Administration

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Elementary and Secondary School Emergency Relief Fund (ESSER Fund) PRC 163	\$36,734	Principal Investigator (PI): Pamela Broome	College of Education	Sponsor: North Carolina Department of Public Instruction (NCDPI) Prime Sponsor: Department of Education (DOED) US Department of Education
SBA 2021-22 Federal Funding	\$314,266	Principal Investigator (PI): Robin McIntire	SBTDC	Sponsor: Small Business Administration (SBA)