

December 5, 2020 (revised)

The Office of Research and Economic Development is pleased to announce awards received by UNC Charlotte Researchers in the month of October, 2020.

Total amount awarded for the month of October was \$11,731,235

Fiscal Year To Date Total: \$32,243,169

Award Title	Amount	Investigators	PI Dept.	Sponsors
A Critical Narrative Exploration of the Illegitimization and Relegitimization of Female Bodies in Ireland: Transgressive Deaths and Identity Construction	\$15,400	Principal Investigator (PI): Davis, Christine	Communication Studies	Sponsor: Fulbright Scholar Program
A Launch-Pad for Biologics Acting in Plants	\$19,971	Principal Investigator (PI): Jacobs, Donald Co-PI: Jacobs, Donald	Physics and Optical Science	Sponsor: New Zealand Institute for Plant and Food Research Limited Prime Sponsor: New Zealand Ministry of Business, Innovation and Employment
A1: An Open Knowledge Network to Transform the Transparency and Accessibility of Court Records	\$86,944	Principal Investigator (PI): Windett, Jason	Political Science and Public Administration	Sponsor: Northwestern University Prime Sponsor: National Science Foundation (NSF)
Adapting an In-Person Intergroup Bias Training to an Online Format	\$1,000	Principal Investigator (PI): Montanaro, Erika Co-PI: Montanaro, Erika	Psychological Science	Sponsor: Association for Psychological Science (APS)
Air Force University Engineering Design Challenge	\$25,000	Principal Investigator (PI): Browne, Aidan	Engineering Technology and Construction Management	Sponsor: DZYNE Technologies Incorporated (DZYNE) Prime Sponsor: DOD Department of Air Force (DAF) Air Force Research Laboratory (AFRL)
Areawide Management of Brown Marmorated Stink Bug - Incorporation of Simulated Biotic Mortality into an Halymorpha halys Agent-Based Model	\$17,999	Principal Investigator (PI): Chen, Shi Co-PI: Chen, Shi	Public Health Sciences	Sponsor: Pennsylvania State University (PENN STATE) Prime Sponsor: US Department of Agriculture (USDA)

Award Title	Amount	Investigators	PI Dept.	Sponsors
Charlotte (Virtual) Neighborhood Walk	\$48,109	Principal Investigator (PI): Lee, Ming-Chun	School of Architecture	Sponsor: John S and James L Knight Foundation
Confidential	\$47,976	Principal Investigator (PI): Lipford, Heather Co-PI: Lipford, Heather	Software and Information Systems	Sponsor: Confidential
Connector Awards for Solar Prize Round 2 Set Competition.	\$1,500	Principal Investigator (PI): Ebong, Abasifreke	Electrical and Computer Engineering	Sponsor: Department of Energy (DOE) National Renewable Energy Laboratory (NREL)
Cross-Platform and Graphical Software Tool for Adaptive LC/MS and GC/MS Metabolomics Data Preprocessing	\$357,279	Principal Investigator (PI): Du, Xiuxia Co-PI: Du, Xiuxia	Bioinformatics and Genomics	Sponsor: National Institutes of Health (NIH)
Enabling Advanced Electrode Architecture Through Printing Technique	\$351,970	Principal Investigator (PI): Xu, Jun	Mechanical Engineering and Engineering Science	Sponsor: Western Michigan University Prime Sponsor: Department of Energy (DOE)
Full Scale Testing Program of Tindall T-Slab System	\$6,394	Principal Investigator (PI): Braxtan, Nicole Co-PI: Braxtan, Nicole	Civil and Environmental Engineering	Sponsor: Tindall Corporation
Intelligent Power Stages	\$150,000	Principal Investigator (PI): Parkhideh, Babak Co-PI: Gafford, James	Electrical and Computer Engineering	Sponsor: Department of Energy (DOE) Oak Ridge National Laboratories Prime Sponsor: Department of Energy (DOE)

Award Title	Amount	Investigators	PI Dept.	Sponsors
Load Capacity of Concrete Pile Sections	\$13,500	Principal Investigator (PI): Smith, Benjamin Co-PI: Smith, Benjamin	Engineering Technology and Construction Management	Sponsor: Geopier Foundation Company, Inc.
Mecklenburg County CFPPT Communitywide Child Abuse Prevention Plan: Needs Assessment	\$75,000	Principal Investigator (PI): Portwood, Sharon	Public Health Sciences	Sponsor: Mecklenburg County Department of Social Services (DSS) for Children
Metrology for Additive Manufacturing: Technical Proposal	\$30,000	Principal Investigator (PI): Evans, Christopher Co-PI: Evans, Christopher	Mechanical Engineering and Engineering Science	Sponsor: Department of Commerce (DOC) National Institute of Standards and Technology (NIST)
Near-Roadway and Ambient Air Pollution Exposure and the Gut Microbiome: Implications for Obesity and Insulin Resistance in Adolescence	\$27,720	Principal Investigator (PI): Fodor, Anthony	Bioinformatics and Genomics	Sponsor: University of Colorado Boulder Prime Sponsor: National Institutes of Health (NIH)
Nurse Anesthesia Traineeship, UNC Charlotte	\$19,740	Principal Investigator (PI): Langford, David Co-PI: Langford, David	School of Nursing	Sponsor: US Department of Health and Human Services (DHHS) Health Resources and Services Administration (HRSA)
Prize for American-Made Challenge (AMC) Connector Award	\$5,000	Principal Investigator (PI): Ebong, Abasifreke	Electrical and Computer Engineering	Sponsor: Department of Energy (DOE) National Renewable Energy Laboratory (NREL)
Process for Surface Finish Measurement in X-Ray Computed Tomography	\$60,287	Principal Investigator (PI): Smith, Stuart Co-PI: Smith, Stuart	Mechanical Engineering and Engineering Science	Sponsor: Lawrence Livermore National Security Prime Sponsor: Department of Energy (DOE)

Award Title	Amount	Investigators	PI Dept.	Sponsors
Project Title: Optimal Reconfiguration and Resilient Control Framework for Real-Time Photovoltaic Dispatch to Manage Critical Infrastructure (ReDis-PV)	\$905,032	Principal Investigator (PI): Kamalasadan, Sukumar Co-PI: Han, Tao	Electrical and Computer Engineering	Sponsor: Department of Energy (DOE)
SBTDC State Funding 20-21	\$72,000	Principal Investigator (PI): McIntire, Robin Co-PI: McIntire, Robin	Small Business Technology Development Center (SBTDC)	Sponsor: North Carolina Small Business and Technology Development Center (NC SBTDC)
SHF: Medium: Collaborative Research: Machine Learning Enabled Network-on-Chip Architectures for Optimized Energy, Performance and Reliability	\$29,169	Principal Investigator (PI): Bunescu, Razvan	Computer Science	Sponsor: Ohio University Prime Sponsor: National Science Foundation (NSF)
Strategic Partnerships & Planning to Support Ending the HIV Epidemic in the U.S.	\$45,286	Principal Investigator (PI): Thompson, Michael Co-PI: Thompson, Michael	Public Health Sciences	Sponsor: Mecklenburg County Health Department Prime Sponsor: Centers for Disease Control and Prevention (CDC)
Studying Successful Doctoral Students in Mathematics from Underrepresented Groups	\$15,231	Principal Investigator (PI): Westine, Carl	Educational Leadership	Sponsor: Iowa State University (ISU) Prime Sponsor: National Science Foundation (NSF)
The Educational Needs of African Americans with Type 2 Diabetes for Reducing the Risk of Cardiovascular Diseases and the Barriers that Prevent Adherence to Risk Reduction Strategies	\$12,722	Principal Investigator (PI): Okoro, Florence Co-PI: Okoro, Florence	School of Nursing	Sponsor: State University of New York (SUNY) Downstate Medical Center School of Public Health Prime Sponsor: National Institute of Health (NIH) National Heart, Lung, and Blood Institute (NHLBI)

Award Title	Amount	Investigators	PI Dept.	Sponsors
THE STUDIO @ CTI: UNC Charlotte / Singer Studio International Design Workshops	\$50,000	Principal Investigator (PI): Gamez, Jose	School of Architecture	Sponsor: Jeffrey Cook Charitable Trust
UNC Charlotte's PhD Program in Special Education	\$241,006	Principal Investigator (PI): Pennington, Robert Co-PI: Pennington, Robert	Special Education and Child Development	Sponsor: US Department of Education (DOED)
Development and analysis of viral and epidemiological data to address viral spread, assess treatments and therapeutics, and combat the COVID-19 pandemic and future viruses	\$4,000,000	Principal Investigator (PI): Janies, Daniel	Bioinformatics and Genomics	Sponsor: North Carolina Office of State Budget and Management
Development of a novel COVID-19 monitoring program based on the presence of the virus in wastewater and public transportation systems	\$5,000,000	Principal Investigator (PI): Gibas, Cynthia	Bioinformatics and Genomics	Sponsor: North Carolina Office of State Budget and Management