

September 2, 2016

The Office of Research and Economic Development is pleased to announce awards received by UNC Charlotte Researchers in the month of July, 2016.

Total amount awarded for the month of July was \$4,549,469

Fiscal Year To Date Total: \$4,549,469

<b>Award Title</b>	<b>Amount</b>	<b>Investigators</b>	<b>PI Dept.</b>	<b>Sponsors</b>
<b>Collaborative Research: ABI Development: A User-friendly Tool for Highly Accurate Video Tracking</b>	\$888,083	<b>Principal Investigator (PI):</b> Shin, Min <b>Co-PI:</b> Loraine, Ann	Computer Science	<b>Sponsor:</b> National Science Foundation (NSF)
<b>2016-17 Berkeley County Schools</b>	\$5,000	<b>Principal Investigator (PI):</b> Pressley, JoAnne	Urban Institute	<b>Sponsor:</b> Berkeley County Schools
<b>A generalized platform to evaluate mid spatial frequency error reduction, polishing MRRs and finish.</b>	\$26,253	<b>Principal Investigator (PI):</b> Mullany, Brigid	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> University of Rochester <b>Prime Sponsor:</b> All Other Business and Industry
<b>A Multilevel mHealth Colorectal Cancer Screening (mCRC) Intervention for Primary Care Practices</b>	\$34,369	<b>Principal Investigator (PI):</b> Troyer, Jennifer	Economics	<b>Sponsor:</b> Wake Forest University Health Sciences <b>Prime Sponsor:</b> National Institutes of Health (NIH)
<b>ABI Development: Pathview: a systematic solution for pathway based analytics and visualization</b>	\$247,655	<b>Principal Investigator (PI):</b> Luo, Weijun	Bioinformatics Research Center	<b>Sponsor:</b> National Science Foundation (NSF)
<b>AFRL University Engineering Design Challenge Program</b>	\$20,000	<b>Principal Investigator (PI):</b> Browne, Aidan	Engineering Technology and Construction Management	<b>Sponsor:</b> Technology Service Corporation <b>Prime Sponsor:</b> Department of Defense (DOD) Department of the Air Force (DAF) Air Force Office of Scientific Research (AFOSR)
<b>Area Acoustic and Electromagnetic Emissions Monitoring</b>	\$34,236	<b>Principal Investigator (PI):</b> Browne, Aidan <b>Co-PI:</b> Cox, Robert	Engineering Technology and Construction Management	<b>Sponsor:</b> Electric Power Research Institute (EPRI)

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<b>Atmospheric Corrosion Map</b>	\$16,000	<b>Principal Investigator (PI):</b> Tang, Wenwu	Geography and Earth Sciences	<b>Sponsor:</b> Electric Power Research Institute (EPRI)
<b>Check &amp; Connect Intervention (2016-2017)</b>	\$7,000	<b>Principal Investigator (PI):</b> Lewis, Chance	Middle, Secondary and K-12 Education	<b>Sponsor:</b> Communities in Schools (CIS)
<b>CISE Evaluation Toolkit Extension Project</b>	\$192,555	<b>Principal Investigator (PI):</b> Rorrer, Audrey	Deans Office College of Computing and Informatics	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Collaborative Project: Carolina Cyber Defender Scholarship</b>	\$422,602	<b>Principal Investigator (PI):</b> Chu, Bei-Tseng <b>Co-PIs:</b> Al-Shaer, Ehab; Lipford, Heather; Shehab, Mohamed; Wang, Weichao; Wu, Xintao	Software and Information Systems	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Collaborative Research: IUCRC Center for Configuration Analytics and Automation</b>	\$102,275	<b>Principal Investigator (PI):</b> Al-Shaer, Ehab <b>Co-PI:</b> Chu, Bei-Tseng	Software and Information Systems	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Community Needs Assessment of Older Adults in Charlotte and Mecklenburg County</b>	\$194,463	<b>Principal Investigator (PI):</b> Montoro-Rodriguez, Julian	School of Social Work	<b>Sponsor:</b> Southminster Inc.
<b>DC Bus Integration of Battery Energy Storage System with a Commercial PV Inverter System at Duke Energy's Mt. Holly Laboratory</b>	\$57,380	<b>Principal Investigator (PI):</b> Manjrekar, Madhav <b>Co-PIs:</b> Enslin, Johan; Essakiappan, Somasundaram; Kamalasadan, Sukumar	Energy Production and Infrastructure Center	<b>Sponsor:</b> Duke Energy Corporation

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<b>Effect of bromide on formation of antibacterially active products during chlorination of water containing antibiotics</b>	\$4,981	<b>Principal Investigator (PI):</b> Keen, Olya	Civil and Environmental Engineering	<b>Sponsor:</b> North Carolina State University (NCSU) North Carolina Sea Grant <b>Prime Sponsor:</b> Department of Commerce (DOC) National Oceanic and Atmospheric Administration (NOAA)
<b>Evaluation Assistantship</b>	\$1,710	<b>Principal Investigator (PI):</b> Cook, James <b>Co-PI:</b> Kilmer, Ryan	Psychology	<b>Sponsor:</b> Thompson Child and Family Focus
<b>Graduate Fellowships in Bioinformatics and Computational Biology</b>	\$246,140	<b>Principal Investigator (PI):</b> Gibas, Cynthia <b>Co-PIs:</b> Brouwer, Cory; Livesay, Dennis; Weller, Jennifer; Schlueter, Jessica	Bioinformatics and Genomics	<b>Sponsor:</b> US Department of Education (DOED)
<b>Guide for Utilization Measurement and Management of Fleet Equipment</b>	\$124,107	<b>Principal Investigator (PI):</b> Fan, Wei	Civil and Environmental Engineering	<b>Sponsor:</b> Washington State University <b>Prime Sponsor:</b> National Academy of Sciences
<b>HRSA Scholarships for Disadvantaged Students - Behavioral Health Scholars Program</b>	\$312,025	<b>Principal Investigator (PI):</b> Herman-Smith, Robert	School of Social Work	<b>Sponsor:</b> Health Resources and Services Administration (HRSA)
<b>II-New: Collaborative: A Mixed Reality Environment for Enabling Everywhere Data-Centric Work</b>	\$399,280	<b>Principal Investigator (PI):</b> Lu, Aidong <b>Co-PI:</b> Zhang, Shaoting	Computer Science	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Implementation of a Novel Laser Localization System</b>	\$12,161	<b>Principal Investigator (PI):</b> Browne, Aidan	Engineering Technology and Construction Management	<b>Sponsor:</b> North Carolina Space Grant Consortium (NC Space Grant) <b>Prime Sponsor:</b> National Aeronautics and Space Administration (NASA) National Space Grant College and Fellowship Program

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<b>Improved Data for Mechanistic-Empirical Pavement Design for Concrete Pavements</b>	\$10,410	<b>Principal Investigator (PI):</b> Cavalline, Tara <b>Co-PI:</b> Tempest, Brett	Engineering Technology and Construction Management	<b>Sponsor:</b> North Carolina Department of Transportation (NCDOT) <b>Prime Sponsor:</b> Federal Highway Administration (FHWA)
<b>Interconnection of Premise Energy Router with the Residential Grid</b>	\$74,644	<b>Principal Investigator (PI):</b> Manjrekar, Madhav <b>Co-PIs:</b> Shoubaki, Ehab; Enslin, Johan; Essakiappan, Somasundaram	Electrical and Computer Engineering	<b>Sponsor:</b> Duke Energy Corporation
<b>Joy Charter School TIMS Computerized Bus Routing Project 2015-16</b>	\$2,700	<b>Principal Investigator (PI):</b> Pressley, JoAnne	Urban Institute	<b>Sponsor:</b> Maureen Joy Charter School
<b>Live, Work, and Play Preferences of Millennials in Charlotte, February 2016</b>	\$4,500	<b>Principal Investigator (PI):</b> Gavarkavich, Diane	Urban Institute	<b>Sponsor:</b> Urban Land Institute
<b>Mt. Holly and Rankin Modeling Activity</b>	\$68,054	<b>Principal Investigator (PI):</b> Cecchi, Valentina <b>Co-PIs:</b> Manjrekar, Madhav; Essakiappan, Somasundaram	Electrical and Computer Engineering	<b>Sponsor:</b> Duke Energy Corporation
<b>National Science Foundation Graduate Research Fellowship Program</b>	\$138,000	<b>Principal Investigator (PI):</b> Reynolds, Thomas	Graduate School	<b>Sponsor:</b> National Science Foundation (NSF)
<b>NSF Center for Metamaterials Phase II</b>	\$200,000	<b>Principal Investigator (PI):</b> Fiddy, Michael	Physics and Optical Science	<b>Sponsor:</b> National Science Foundation (NSF)
<b>PFI: AIR-TT: Video Collaboratory: A Platform for Active Viewing and Collaboration with Video Data</b>	\$4,527	<b>Principal Investigator (PI):</b> Wilson, David <b>Co-PI:</b> Singh, Vikash	Software and Information Systems	<b>Sponsor:</b> National Science Foundation (NSF)

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<b>Premise Energy Router Inverter Module and DC/DC Converter Module Development</b>	\$95,098	<b>Principal Investigator (PI):</b> Manjrekar, Madhav <b>Co-PIs:</b> Shoubaki, Ehab; Enslin, Johan; Essakiappan, Somasundaram	Electrical and Computer Engineering	<b>Sponsor:</b> Duke Energy Corporation
<b>Scholars Award: Pragmatism's Evolution: Organism and Environment in American Philosophy</b>	\$153,327	<b>Principal Investigator (PI):</b> Pearce, Trevor	Philosophy	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Shaping the Message: African American Youth and their Families Use Media to Promote Violence-Free Dating Relationships</b>	\$29,865	<b>Principal Investigator (PI):</b> Kulkarni, Shanti <b>Co-PI:</b> DeHaven, Mark	School of Social Work	<b>Sponsor:</b> National Institutes of Health (NIH) National Institute of Child Health and Human Development (NICHD)
<b>Statistical Methods in HIV Vaccine Efficacy Trials</b>	\$93,459	<b>Principal Investigator (PI):</b> Sun, Yanqing	Mathematics and Statistics	<b>Sponsor:</b> Fred Hutchinson Cancer Research Center <b>Prime Sponsor:</b> National Institutes of Health (NIH) National Institute of Allergy and Infectious Diseases (NIAID)
<b>STTR: High Power Chalcogenide Glass and Optical Fiber development</b>	\$45,000	<b>Principal Investigator (PI):</b> Poutous, Menelaos <b>Co-PI:</b> Case, Jason	Physics and Optical Science	<b>Sponsor:</b> IRflex Corporation <b>Prime Sponsor:</b> Department of Defense (DOD) Department of the Air Force (DAF) Air Force Office of Scientific Research (AFOSR)
<b>Sugar Creek Charter School TIMS Computerized Bus Routing Project 2016-17</b>	\$2,700	<b>Principal Investigator (PI):</b> Pressley, JoAnne	Urban Institute	<b>Sponsor:</b> Sugar Creek Charter School
<b>UNCC - Envision Charlotte Partnership for Energy Savings</b>	\$28,912	<b>Principal Investigator (PI):</b> Futrell, Benjamin <b>Co-PI:</b> Cox, Robert	School of Architecture	<b>Sponsor:</b> Envision Charlotte <b>Prime Sponsor:</b> Department of Energy (DOE)

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University of North Carolina at Charlotte PhD Program 2014	\$249,998	<b>Principal Investigator (PI):</b> Browder-Boswell, Diane <b>Co-PI:</b> Test, David	Special Education and Child Development	<b>Sponsor:</b> US Department of Education (DOED)