

December 21, 2016

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

Total amount awarded for the month of November was \$1,957,727

Fiscal Year To Date Total: \$24,070,279

<b>Award Title</b>	<b>Amount</b>	<b>Investigators</b>	<b>PI Dept.</b>	<b>Sponsors</b>
<b>2016-2017 Charlotte-Mecklenburg Quality of Life Study (City)</b>	\$40,000	<b>Principal Investigator (PI):</b> Simmons, Laura <b>Co-PI:</b> Zager, Kathryn	Urban Institute	<b>Sponsor:</b> City of Charlotte
<b>AAAS Science and Technology Policy Fellowship</b>	\$91,564	<b>Principal Investigator (PI):</b> Peterson, Nicole	Anthropology	<b>Sponsor:</b> American Association for the Advancement of Science (AAAS)
<b>Agility In Depth: A formal framework for cyber agility composition</b>	\$139,999	<b>Principal Investigator (PI):</b> Al-Shaer, Ehab <b>Co-PI:</b> Duan, Qi	Software and Information Systems	<b>Sponsor:</b> Department of Defense (DOD) Department of the Army (DA) Army Research Office (ARO)
<b>Building Healthy Lifestyles from All Directions</b>	\$31,125	<b>Principal Investigator (PI):</b> Racine, Elizabeth	Public Health Sciences	<b>Sponsor:</b> Cabarrus Partnership for Children
<b>Career and Technical Education (CTE) and Industry Survey (Cabarrus)</b>	\$7,750	<b>Principal Investigator (PI):</b> Gavarkavich, Diane <b>Co-PIs:</b> Swiderski, Thomas; Szczepaniak, Zachary	Urban Institute	<b>Sponsor:</b> Cabarrus County Schools Career and Technical Education (CTE)
<b>Career and Technical Education (CTE) and Industry Survey (Kannapolis)</b>	\$7,750	<b>Principal Investigator (PI):</b> Gavarkavich, Diane <b>Co-PIs:</b> Swiderski, Thomas; Szczepaniak, Zachary	Urban Institute	<b>Sponsor:</b> Kannapolis City Schools Career and Technical Education (CTE)
<b>Changing the Narrative on Campus Gender-Based Violence at UNCC</b>	\$10,000	<b>Principal Investigator (PI):</b> Mennicke, Annelise	School of Social Work	<b>Sponsor:</b> Avon Foundation
<b>Correlative study of defects in semiconductors</b>	\$258,367	<b>Principal Investigator (PI):</b> Zhang, Yong	Electrical and Computer Engineering	<b>Sponsor:</b> Department of Defense (DOD) Department of the Army (DA) Army Research Office (ARO)

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<b>Cyber Vulnerability of Electrical Power Systems using Distributed Synchronphasors</b>	\$25,000	<b>Principal Investigator (PI):</b> Manjrekar, Madhav <b>Co-PI:</b> Chowdhury, Badrul;	Electrical and Computer Engineering	<b>Sponsor:</b> Center for Advanced Power Engineering Research (CAPER) <b>Prime Sponsor:</b> Clemson University
<b>Firebrand Ignition of Insulation Foams</b>	\$16,504	<b>Principal Investigator (PI):</b> Zhou, Aixi	Engineering Technology and Construction Management	<b>Sponsor:</b> ICL Industrial Products
<b>Healthy Wells</b>	\$93,874	<b>Principal Investigator (PI):</b> Silverman, Gary <b>Co-PIs:</b> Delmelle, Eric; Tang, Wenwu	Public Health Sciences	<b>Sponsor:</b> Gaston County Health Department <b>Prime Sponsor:</b> Centers for Disease Control and Prevention (CDC)
<b>Heart Math Tutoring Program Evaluation</b>	\$11,475	<b>Principal Investigator (PI):</b> Swiderski, Thomas <b>Co-PI:</b> Lane, Justin	Urban Institute	<b>Sponsor:</b> Heart Math Tutoring
<b>Influence of Bananas Varying in Carbohydrate and Phenolic Content on Exercise Performance and Recovery</b>	\$14,994	<b>Principal Investigator (PI):</b> Sha, Wei	Bioinformatics and Genomics	<b>Sponsor:</b> Appalachian State University (ASU) <b>Prime Sponsor:</b> Dole Fruits, Inc.
<b>Infrared Freeform Lenses in ZnS Cleartran</b>	\$8,240	<b>Principal Investigator (PI):</b> Owen, Joseph <b>Co-PIs:</b> Davies, Matthew; Suleski, Thomas	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> Nanohmics, Inc. <b>Prime Sponsor:</b> Department of Defense (DOD) Department of the Navy (DN) Office of Naval Research (ONR)
<b>Metrology for Additive Manufacturing: Technical Proposal</b>	\$30,000	<b>Principal Investigator (PI):</b> Evans, Christopher	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> Department of Commerce (DOC) National Institute of Standards and Technology (NIST)

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<b>NCMEP - UNC Charlotte 2016-2017 Program</b>	\$25,000	<b>Principal Investigator (PI):</b> Ozelkan, Ertunga <b>Co-PI:</b> Teng, Sheng-Hsien	Systems Engineering and Engineering Management	<b>Sponsor:</b> North Carolina State University (NCSU) <b>Prime Sponsor:</b> Department of Commerce (DOC) National Institute of Standards and Technology (NIST)
<b>Numerical Methods for Studying Optical Absorption of Random Media and Quantum Dots for Solar Cell Designs</b>	\$88,577	<b>Principal Investigator (PI):</b> Cai, Wei	Mathematics and Statistics	<b>Sponsor:</b> Department of Defense (DOD) Department of the Army (DA) Army Research Office (ARO)
<b>Numerical Simulations of Turbulent Mixing due to the Richtmyer-Meshkov Instability</b>	\$60,089	<b>Principal Investigator (PI):</b> Ramaprabhu, Praveen	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> Los Alamos National Laboratory (LANL) <b>Prime Sponsor:</b> Department of Energy (DOE)
<b>Petrographic Examination and Laboratory Testing of Concrete Airfield Pavements</b>	\$66,334	<b>Principal Investigator (PI):</b> Cavalline, Tara <b>Co-PI:</b> Williams, Wesley	Engineering Technology and Construction Management	<b>Sponsor:</b> Aviation Infrastructure Solutions
<b>Pragda/Spanish Film Club Grant for International Film Festival at University of North Carolina at Charlotte</b>	\$1,250	<b>Principal Investigator (PI):</b> Rodriguez, Monica <b>Co-PI:</b> Dalton, David	Languages and Culture Studies	<b>Sponsor:</b> Pragda
<b>Project Early Childhood Special Education Leaders (ECSEL)</b>	\$250,000	<b>Principal Investigator (PI):</b> Baughan, Cynthia <b>Co-PIs:</b> Smith, JaneDiane; Shue, Pamela; Algozzine, Robert; Lamorey, Suzanne	Special Education and Child Development	<b>Sponsor:</b> US Department of Education (DOED)
<b>Public Service Fellowship Arts and Science Council</b>	\$21,966	<b>Principal Investigator (PI):</b> Barth, Thomas	Political Science and Public Administration	<b>Sponsor:</b> City of Charlotte Arts and Science Council

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<b>Regional EC Education Consultant and State Performance Plan Consultant</b>	\$8,268	<b>Principal Investigator (PI):</b> Anderson, Kelly	Special Education and Child Development	<b>Sponsor:</b> North Carolina Department of Public Instruction (NCDPI) <b>Prime Sponsor:</b> US Department of Education (DOED)
<b>Ruffs Re-Invented: Construction and Deconstruction of the Elizabethan Ruff</b>	\$1,000	<b>Principal Investigator (PI):</b> Amidei, Allison	Theatre	<b>Sponsor:</b> The Colonial Williamsburg Foundation
<b>S&amp;CC: Support Community-Scale Study by Visual Analytics of Human Mobility and Opinion Data from Social Media Data.</b>	\$10,450	<b>Principal Investigator (PI):</b> Yang, Jing	Computer Science	<b>Sponsor:</b> Kent State University <b>Prime Sponsor:</b> National Science Foundation (NSF)
<b>Science of Security Lablet</b>	\$200,000	<b>Principal Investigator (PI):</b> Al-Shaer, Ehab	Software and Information Systems	<b>Sponsor:</b> North Carolina State University (NCSU) <b>Prime Sponsor:</b> Department of Defense (DOD) National Security Agency (NSA)
<b>Story-Call: E-mobile Support for Community Caregivers of Veterans with Dementia</b>	\$63,028	<b>Principal Investigator (PI):</b> Davis, Boyd <b>Co-PIs:</b> Shenk, Dena; Shehab, Mohamed	English	<b>Sponsor:</b> Ralph H. Johnson Veterans Affairs Medical Center
<b>Technical Assistance to the North Carolina Department of Public Instruction in the Implementation of the Transportation Information Management System (TIMS) 2016-17</b>	\$216,000	<b>Principal Investigator (PI):</b> Pressley, JoAnne	Urban Institute	<b>Sponsor:</b> North Carolina Department of Public Instruction (NCDPI)
<b>The role of environmental buffers in potable water reuse</b>	\$109,123	<b>Principal Investigator (PI):</b> Keen, Olya <b>Co-PI:</b> Munir, Mariya	Civil and Environmental Engineering	<b>Sponsor:</b> North Carolina State University (NCSU) Water Resources Research Institute (WRRI) <b>Prime Sponsor:</b> National Institutes for Water Resources
<b>Vocal Accommodation Within Nonverbal Frequencies as a Marker of Status, Dominance, and Prestige</b>	\$50,000	<b>Principal Investigator (PI):</b> Dippong, Joseph	Sociology	<b>Sponsor:</b> Department of Defense (DOD) Department of the Army (DA) Army Research Office (ARO)