

July 29, 2015

The Office of Research and Economic Development is pleased to announce awards received by UNC Charlotte Researchers in the month of June, 2015.

Total amount awarded for the month of June was \$9,553,920

Fiscal Year To Date Total: \$47,069,288

<b>Award Title</b>	<b>Amount</b>	<b>Investigators</b>	<b>PI Dept.</b>	<b>Sponsors</b>
<b>2015-16 Berkeley County Schools</b>	\$4,576	<b>Principal Investigator (PI):</b> Pressley, JoAnne	Urban Institute	<b>Sponsor:</b> Berkeley County Schools
<b>6 LED Mask for Press Fit Light Pipe 45-32800-30 REV A</b>	\$5,048	<b>Principal Investigator (PI):</b> Owen, Joseph <b>Co-PIs:</b> Davies, Matthew	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> Magic Leap Inc.
<b>A Child's Place End of Year Annual Report Data Update 2015</b>	\$1,500	<b>Principal Investigator (PI):</b> Gavarkavich, Diane	Urban Institute	<b>Sponsor:</b> A Child's Place
<b>A Multilevel mHealth Colorectal Cancer Screening (mCRC) Intervention for Primary Care Practices</b>	\$14,544	<b>Principal Investigator (PI):</b> Troyer, Jennifer	Deans Office College of Business	<b>Sponsor:</b> Wake Forest University Health Sciences <b>Prime Sponsor:</b> National Institutes of Health (NIH)
<b>Advancing Dimensional Metrology for Intelligent Manufacturing with The Center for Precision Metrology</b>	\$80,000	<b>Principal Investigator (PI):</b> Evans, Christopher <b>Co-PIs:</b> Miller, Jimmie	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> Department of Commerce (DOC) National Institute of Standards and Technology (NIST)
<b>Behavioral Stigma Index</b>	\$4,000	<b>Principal Investigator (PI):</b> Hadzikadic, Mirsad	Software and Information Systems	<b>Sponsor:</b> Carolinas HealthCare System
<b>bZIP Protein Function in an Organismal Model for Peripheral Circadian Clocks</b>	\$324,095	<b>Principal Investigator (PI):</b> Reitzel, Adam	Biological Sciences	<b>Sponsor:</b> National Institutes of Health (NIH)
<b>CAREER: Plasmon-mediated photo-absorption and carrier recombination dynamics in semiconductor/metal hybrid nano-systems</b>	\$300,764	<b>Principal Investigator (PI):</b> Jones, Marcus	Chemistry	<b>Sponsor:</b> National Science Foundation (NSF)

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<b>Collaborative Proposal: ABI Innovation: Rapid, Interactive, Visual Mining of Biological Motion</b>	\$237,407	<b>Principal Investigator (PI):</b> Shin, Min <b>Co-PIs:</b> Souvenir, Richard; Schneider, Stanley	Computer Science	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Collaborative Research: I/UCRC for Robots and Sensors for the Human Well-being</b>	\$8,000	<b>Principal Investigator (PI):</b> Xiao, Jing	Computer Science	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Collaborative Research: ABI Innovation: Towards high performance flexible transcription factor-DNA docking</b>	\$196,028	<b>Principal Investigator (PI):</b> Guo, Jun-tao	Bioinformatics and Genomics	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Continued Maintenance and Development of Software: Integrated Genome Browser and the Genoviz SDK, Visualization Software for Next-Generation Genomics</b>	\$293,987	<b>Principal Investigator (PI):</b> Loraine, Ann	Bioinformatics and Genomics	<b>Sponsor:</b> NIH National Center for Research Resources (NCRR)
<b>Creating a Usable Security and Privacy Body of Knowledge</b>	\$194,439	<b>Principal Investigator (PI):</b> Lipford, Heather <b>Co-PIs:</b> Rorrer, Audrey; Martin, Florence	Software and Information Systems	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Crime Analysis Capability</b>	\$49,500	<b>Principal Investigator (PI):</b> Reid, Shannon	Criminal Justice and Criminology	<b>Sponsor:</b> Charlotte-Mecklenburg Police Department <b>Prime Sponsor:</b> Bureau of Justice Assistance
<b>Designing and Building an Outreach Robot</b>	\$10,000	<b>Principal Investigator (PI):</b> Conrad, James	Electrical and Computer Engineering	<b>Sponsor:</b> Discover Technology, Inc.
<b>Developing a Systematic Approach to Improving Bottleneck Analysis in North Carolina</b>	\$199,835	<b>Principal Investigator (PI):</b> Fan, Wei	Civil and Environmental Engineering	<b>Sponsor:</b> North Carolina Department of Transportation (NCDOT) <b>Prime Sponsor:</b> Federal Highway Administration (FHWA)
<b>Development of CFD Methodologies for Improved Underhood Airflow Management</b>	\$70,000	<b>Principal Investigator (PI):</b> Uddin, Mesbah	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> Hyundai America Technical Center, Inc. (HATCI)

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<b>Development of Performance Curves for Composite Pavements in PMS</b>	\$238,930	<b>Principal Investigator (PI):</b> Chen, Dong <b>Co-PIs:</b> Sherlock, Barry; Nicholas, Thomas	Engineering Technology and Construction Management	<b>Sponsor:</b> North Carolina Department of Transportation (NCDOT) <b>Prime Sponsor:</b> Federal Highway Administration (FHWA)
<b>Distinguished Chair in American Studies</b>	\$44,650	<b>Principal Investigator (PI):</b> Freitag, Alan	Communication Studies	<b>Sponsor:</b> Fulbright Scholar Program
<b>DoS English Language Specialist Award to Japan Summer 2015</b>	\$6,250	<b>Principal Investigator (PI):</b> Salas, Spencer	Middle, Secondary and K-12 Education	<b>Sponsor:</b> Georgetown University <b>Prime Sponsor:</b> Department of State (DOS)
<b>Early College education in cooperation with Charlotte Mecklenburg Schools</b>	\$65,023	<b>Principal Investigator (PI):</b> Howard, Michele	University College	<b>Sponsor:</b> Charlotte Mecklenburg Schools <b>Prime Sponsor:</b> NIH Center for Information Technology (CIT)
<b>Effect of Weathering on the Performance of Fire Retardant Coatings</b>	\$7,500	<b>Principal Investigator (PI):</b> Zhou, Aixi	Engineering Technology and Construction Management	<b>Sponsor:</b> Insurance Institute for Business & Home Safety (IBHS)
<b>Engaging Military Veterans to Increase STEM Enrollment and Degrees Awarded</b>	\$200,000	<b>Principal Investigator (PI):</b> Tkacik, Peter <b>Co-PIs:</b> Lim, Jae Hoon; Day, Kent; Uddin, Mesbah; Tolley, Patricia; Keanini, Russell	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> Department of Defense (DOD) Department of the Navy (DN)
<b>Guidelines for Prioritization of Bridge Replacement, Rehabilitation, and Preservation Projects</b>	\$181,802	<b>Principal Investigator (PI):</b> Whelan, Matthew <b>Co-PIs:</b> Cavalline, Tara	Civil and Environmental Engineering	<b>Sponsor:</b> North Carolina Department of Transportation (NCDOT) <b>Prime Sponsor:</b> Federal Highway Administration (FHWA)
<b>HRSA SDS - BSN (Edwards)</b>	\$470,000	<b>Principal Investigator (PI):</b> Herron, Elizabeth	School of Nursing	<b>Sponsor:</b> Health Resources and Services Administration (HRSA)

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<b>Improved Methods for Generator Rotor Trimming and Charting</b>	\$4,908	<b>Principal Investigator (PI):</b> Ziegert, John <b>Co-PIs:</b> Schmidt, Peter	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> Siemens Energy
<b>Increasing the Utilization of Weather Data for Safety Applications and Traveler Information</b>	\$138,261	<b>Principal Investigator (PI):</b> Duddu, Venkata Ramana <b>Co-PIs:</b> Eastin, Matthew; Pulugurtha, Srinivas	Civil and Environmental Engineering	<b>Sponsor:</b> North Carolina Department of Transportation (NCDOT)
<b>Institutional Transformations and Shifting Patterns of Social Inequality in Urban China</b>	\$25,631	<b>Principal Investigator (PI):</b> Zhao, Wei	Sociology	<b>Sponsor:</b> Chiang Ching-Kuo Foundation (CCKF)
<b>Internal Curing of Concrete Using Lightweight Aggregate</b>	\$253,128	<b>Principal Investigator (PI):</b> Cavalline, Tara <b>Co-PIs:</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>Intervention Development for Primary Care Diabetes Communication Skills</b>	\$16,300	<b>Principal Investigator (PI):</b> Davis, Boyd	English	<b>Sponsor:</b> Ralph H. Johnson Veterans Affairs Medical Center
<b>IUSE/PFE:RED: The Connected Learner: Design Patterns for Transforming Computing and Informatics Education</b>	\$1,999,959	<b>Principal Investigator (PI):</b> Maher, Mary <b>Co-PIs:</b> Rorrer, Audrey; Cukic, Bojan; Latulipe, Celine; Souvenir, Jamie; Mays, Lawrence; Rogelberg, Steven	Software and Information Systems	<b>Sponsor:</b> National Science Foundation (NSF)
<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

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<b>Leveraging Industry Research to Educate a Future Electric Grid Workforce</b>	\$146,133	<b>Principal Investigator (PI):</b> Chowdhury, Badrul <b>Co-PIs:</b> Parkhideh, Babak; Enslin, Johan; Noras, Maciej; Manjrekar, Madhav; Cox, Robert; Cecchi, Valentina; Salami, Zia	Electrical and Computer Engineering	<b>Sponsor:</b> Electric Power Research Institute (EPRI) <b>Prime Sponsor:</b> Department of Energy (DOE)
<b>LSTA Access &amp; Digitization 2013-2014 Project Grant</b>	\$100,000	<b>Principal Investigator (PI):</b> Schmitz, Dawn	Library Special Collections	<b>Sponsor:</b> North Carolina State Library <b>Prime Sponsor:</b> Institute of Museum and Library Services
<b>Magnetic gearbox sizing analysis for a fan application</b>	\$6,938	<b>Principal Investigator (PI):</b> Bird, Jonathan	Electrical and Computer Engineering	<b>Sponsor:</b> Big Ass Fans
<b>mHealth Delivery of a Motivational Intervention to Address Heavy Drinking among College Freshmen</b>	\$299,999	<b>Principal Investigator (PI):</b> Kazemi, Donna <b>Co-PIs:</b> Insley, Deborah; Robinson, Leslie; Shehab, Mohamed	School of Nursing	<b>Sponsor:</b> Agency for Healthcare Research and Quality (AHRQ)
<b>Microbial Endocrinology as a Mechanism Governing Stress-Induced Microbiome-Gut-Brain Communication</b>	\$34,736	<b>Principal Investigator (PI):</b> Fodor, Anthony <b>Co-PIs:</b> Gharaibeh, Ra'ad	Bioinformatics and Genomics	<b>Sponsor:</b> Texas Tech University Health Sciences Center <b>Prime Sponsor:</b> Department of Defense (DOD) Department of the Navy (DN) Office of Naval Research (ONR)
<b>National Science Foundation Graduate Research Fellowship Program</b>	\$73,000	<b>Principal Investigator (PI):</b> Sell, Susan	Bioinformatics and Genomics	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Natural Resources and Armed Conflict</b>	\$100,000	<b>Principal Investigator (PI):</b> Walsh, James <b>Co-PIs:</b> Whitaker, Beth; Conrad, Justin	Political Science and Public Administration	<b>Sponsor:</b> Department of Defense (DOD)

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<b>NCMEP - UNC Charlotte 2015-2016 Program</b>	\$50,000	<b>Principal Investigator (PI):</b> Ozelkan, Ertunga <b>Co-PIs:</b> Teng, Sheng-Hsien	Systems Engineering and Engineering Management	<b>Sponsor:</b> North Carolina Manufacturing Extension Partnership (NCMEP) <b>Prime Sponsor:</b> National Institute of Science and Technology (NIST)
<b>North Carolina Data Science and Analytics Initiative</b>	\$2,168,379	<b>Principal Investigator (PI):</b> Hadzikadic, Mirsad <b>Co-PIs:</b> Cukic, Bojan; Schlueter, Shannon	Software and Information Systems	<b>Sponsor:</b> University of North Carolina General Administration (UNC GA)
<b>Nouveau Sud, Nouveau Cirque</b>	\$25,000	<b>Principal Investigator (PI):</b> Cruz Casas, Carlos	Theatre	<b>Sponsor:</b> City of Charlotte Arts and Science Council
<b>Nurse Anesthesia Traineeship, UNC Charlotte</b>	\$35,800	<b>Principal Investigator (PI):</b> Langford, David	School of Nursing	<b>Sponsor:</b> Health Resources and Services Administration (HRSA)
<b>Patient Mobility Data Assessment Center</b>	\$121,791	<b>Principal Investigator (PI):</b> Zheng, Naiquan	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> Carolinas HealthCare System <b>Prime Sponsor:</b> AO Foundation
<b>Ph.D. Graduate Assistantship with the Department of Counseling at the University of North Carolina at Charlotte (Leigh Dongre)</b>	\$14,319	<b>Principal Investigator (PI):</b> Abrams, Lyndon	Counseling	<b>Sponsor:</b> Wake Forest University Baptist Medical Center
<b>Ph.D. Graduate Assistantship with the Department of Counseling at the University of North Carolina at Charlotte (Lindsay Shearer)</b>	\$11,209	<b>Principal Investigator (PI):</b> Abrams, Lyndon	Counseling	<b>Sponsor:</b> Wake Forest University Baptist Medical Center
<b>Phaseless inverse scattering problems for imaging of nano structures</b>	\$57,942	<b>Principal Investigator (PI):</b> Klibanov, Michael	Mathematics and Statistics	<b>Sponsor:</b> Department of Defense (DOD) Department of the Navy (DN) Office of Naval Research (ONR)
<b>Programmatic Initiatives Support</b>	\$12,000	<b>Principal Investigator (PI):</b> Lewis, Chance	Middle, Secondary and K-12 Education	<b>Sponsor:</b> TresSports Interagency Collaborative (TIC)

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<b>PTAC - DLA 2015-2016</b>	\$37,365	<b>Principal Investigator (PI):</b> McAllister, George	Small Business Technology Development Center (SBTDC)	<b>Sponsor:</b> NC Small Business Technology Devel Council <b>Prime Sponsor:</b> Department of Defense (DOD) Defense Logistics Agency
<b>Regulation of floral growth and patterning in Arabidopsis thaliana</b>	\$56,198	<b>Principal Investigator (PI):</b> Loraine, Ann	Bioinformatics and Genomics	<b>Sponsor:</b> University of South Carolina (USC) <b>Prime Sponsor:</b> National Science Foundation (NSF)
<b>Revolutionizing and commercializing rapid molecular diagnostics for viral and bacterial pathogen quantification in marine waters and seafood</b>	\$171,308	<b>Principal Investigator (PI):</b> Oliver, James <b>Co-PIs:</b>	Biological Sciences	<b>Sponsor:</b> University of North Carolina at Chapel Hill (UNC-CH) <b>Prime Sponsor:</b> University of North Carolina General Administration (UNC GA)
<b>SBIR: Innovative Deflectometry Measurement Techniques</b>	\$26,000	<b>Principal Investigator (PI):</b> Davies, Angela <b>Co-PIs:</b> Evans, Christopher	Physics and Optical Science	<b>Sponsor:</b> SURVICE Engineering Company <b>Prime Sponsor:</b> National Aeronautics and Space Administration (NASA)
<b>Setting Appropriate Benefit/Condition Jumps for Pavement Treatments in PMS</b>	\$242,388	<b>Principal Investigator (PI):</b> Chen, Dong Hildreth, John	Engineering Technology and Construction Management	<b>Sponsor:</b> North Carolina Department of Transportation (NCDOT) <b>Prime Sponsor:</b> Federal Highway Administration (FHWA)
<b>Shaping the Way We Teach Webinar for DoS Office of English Language Programs</b>	\$950	<b>Principal Investigator (PI):</b> Salas, Spencer	Middle, Secondary and K-12 Education	<b>Sponsor:</b> Georgetown University Department of State (DOS)
<b>Status and Behavior</b>	\$12,000	<b>Principal Investigator (PI):</b> Webster, Murray	Sociology	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Sugar Creek Charter School TIMS Computerized Bus Routing Project 2015-16</b>	\$2,700	<b>Principal Investigator (PI):</b> Pressley, JoAnne	Urban Institute	<b>Sponsor:</b> Sugar Creek Charter School

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<b>Technical Review and Strategic Planning Services North Carolina Coal Ash Management</b>	\$90,000	<b>Principal Investigator (PI):</b> Khire, Milind Hardin, Christopher	Civil and Environmental Engineering	<b>Sponsor:</b> North Carolina Coal Ash Management Commission
<b>University of Puerto Rico - Mayaguez FELEP Evaluation</b>	\$9,000	<b>Principal Investigator (PI):</b> Dika, Sandra	Educational Leadership	<b>Sponsor:</b> University of Puerto Rico Mayaguez Campus <b>Prime Sponsor:</b> US Department of Education (DOED)