

March 23, 2015

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

Total amount awarded for the month of February was \$1,822,975

Fiscal Year To Date Total: \$26,464,122

Award Title	Amount	Investigators	PI Dept.	Sponsors
2015 Charlotte-Mecklenburg Annual Telephone Survey of Mecklenburg County residents: TreesCharlotte Sponsor	\$1,850	<b>Principal Investigator (PI):</b> Caratao, Frederick	Urban Institute	<b>Sponsor:</b> TreesCharlotte
2015 Gaston County School Study	\$15,000	<b>Principal Investigator (PI):</b> Apaliski, Claire <b>Co-PI:</b> Pressley, JoAnne	Urban Institute	<b>Sponsor:</b> Gaston County Schools
2015 Latin American Economic Development Corporation (LAEDC) Project	\$40,000	<b>Principal Investigator (PI):</b> Apaliski, Claire <b>Co-PI:</b> Wang, Qingfang	Urban Institute	<b>Sponsor:</b> Latin American Economic Development Corporation (LAEDC)
2015 NC Junior Science and Humanities Symposium Competition	\$21,000	<b>Principal Investigator (PI):</b> Wickliff, Alisa <b>Co-PI:</b> Pugalee, David	Center for STEM Education	<b>Sponsor:</b> Academy of Applied Sciences <b>Prime Sponsor:</b> Army Research Laboratory (ARL)
2015 Traffic Safety Survey of Municipalities in North and South Carolina	\$6,050	<b>Principal Investigator (PI):</b> Hauser, Edwin	Urban Institute	<b>Sponsor:</b> AAA Foundation for Traffic Safety
A generalized platform to evaluate mid spatial frequency error reduction, polishing MRRs and finish.	\$23,991	<b>Principal Investigator (PI):</b> Mullany, Brigid	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> University of Rochester <b>Prime Sponsor:</b> National Science Foundation (NSF)
Adolescent Literacy Services: Assessments using Basic Reading Inventory for Freedom School Partners	\$38,787	<b>Principal Investigator (PI):</b> Taylor, David	Reading and Elementary Education	<b>Sponsor:</b> Freedom School Partners
Antibody Fragment Stability: A Focus on Domain-Domain Interactions	\$124,575	<b>Principal Investigator (PI):</b> Livesay, Dennis <b>Co-PI:</b> Jacobs, Donald	Bioinformatics and Genomics	<b>Sponsor:</b> MedImmune, Inc.

<b>CABARRUS STARS - Minority Youth Violence Prevention: Integrating Public Health and Community Policing Approaches</b>	\$30,000	<b>Principal Investigator (PI):</b> Turner, Michael	Criminal Justice and Criminology	<b>Sponsor:</b> Cabarrus Health Alliance <b>Prime Sponsor:</b> Department of Health and Human Services (DHHS)
<b>Cancer related cachexia</b>	\$75,000	<b>Principal Investigator (PI):</b> Arthur, Susan <b>Co-PI:</b> Noone, Joshua	Kinesiology	<b>Sponsor:</b> Helsinn Healthcare SA
<b>CeFO IUCRC : A Deflectometry System with a Form Measurement You Can Trust</b>	\$50,120	<b>Principal Investigator (PI):</b> Davies, Angela <b>Co-PI:</b> Evans, Christopher	Physics and Optical Science	<b>Sponsor:</b> University of Rochester <b>Prime Sponsor:</b> All Other Business and Industry
<b>Characterization of Stability of Springs</b>	\$50,000	<b>Principal Investigator (PI):</b> Lawton, Kevin <b>Co-PI:</b> Patterson, Steven	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> Lawrence Livermore National Laboratory
<b>Cooperative Research Initiative for Dynamic, Modular, and Multi-Axis Nano-Mechanical Measurements</b>	\$68,641	<b>Principal Investigator (PI):</b> Smith, Stuart	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> National Institute of Science and Technology (NIST)
<b>Creation of, with Reid Park youth and adults, a community gathering place, defined by four mosaic benches describing the history of Reid Park under a pergola.</b>	\$5,000	<b>Principal Investigator (PI):</b> Sorensen, Janni <b>Co-PI:</b> Bengle, Tara	Geography and Earth Sciences	<b>Sponsor:</b> City of Charlotte Arts and Science Council
<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)

Examining the culturally responsive climate at Providence Day School	\$20,538	<b>Principal Investigator (PI):</b> Lewis, Chance <b>Co-PIs:</b> Allen, Ayana; Glass, Tehia	Middle, Secondary and K-12 Education	<b>Sponsor:</b> Providence Day School
Freeform machining (and molding) of chalcogenide glass	\$47,835	<b>Principal Investigator (PI):</b> Davies, Matthew	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> University of Rochester <b>Prime Sponsor:</b> National Science Foundation (NSF)
Hybrid Real-Time Simulator (OPAL-RT with RTDS) based Advanced Modeling and Analytical System Solutions of SCE Grid with Renewable Energy Resource and Storage	\$150,000	<b>Principal Investigator (PI):</b> Kamalasadan, Sukumar <b>Co-PIs:</b> Chowdhury, Badrul; Enslin, Johan; Manjrekar, Madhav; Shankar, Ramesh; Cecchi, Valentina	Electrical and Computer Engineering	<b>Sponsor:</b> Southern California Edison (SCE) Company
Interconnection of Two Real-time Simulator Platforms	\$125,000	<b>Principal Investigator (PI):</b> Parkhideh, Babak <b>Co-PIs:</b> Chowdhury, Badrul; Sass, Ronald	Electrical and Computer Engineering	<b>Sponsor:</b> Southern California Edison (SCE) Company
Investigation of the Interaction of Multiple Optical Filters with Infrared Spectra of Explosives Bouquet Mixtures and Interferents	\$50,000	<b>Principal Investigator (PI):</b> Aggarwal, Ishwar	Physics and Optical Science	<b>Sponsor:</b> Office of Naval Research (ONR)
IUCRC CeFO A multidisciplinary technology: enabling freeform surfaces in optical systems	\$16,370	<b>Principal Investigator (PI):</b> Davies, Matthew	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> University of Rochester <b>Prime Sponsor:</b> National Science Foundation (NSF)
IUCRC for Metamaterials	\$55,000	<b>Principal Investigator (PI):</b> Fiddy, Michael	Physics and Optical Science	<b>Sponsor:</b> National Science Foundation (NSF)
Kinematics of the Knee following ACL Reconstruction with BPTB and HS tendon Grafts	\$19,727	<b>Principal Investigator (PI):</b> Zheng, Naiquan	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> OrthoCarolina Research Institute (OCRI)

<b>Knight Foundation Donor Advised Fund Jane's Walk Festival 2014-15</b>	\$21,500	<b>Principal Investigator (PI):</b> Newsom, Mary <b>Co-PI:</b> Apaliski, Claire	Urban Institute	<b>Sponsor:</b> John S and James L Knight Foundation
<b>Mecklenburg Homelessness Project 2014-15</b>	\$35,000	<b>Principal Investigator (PI):</b> Caratao, Frederick <b>Co-PI:</b> Clark, Ashley	Urban Institute	<b>Sponsor:</b> Mecklenburg County Community Support Services
<b>Mecklenburg Livable Communities Plan Experiential Learning and Collaborative Project Support</b>	\$28,342	<b>Principal Investigator (PI):</b> Guyer, Regina <b>Co-PI:</b> Williamson-Coria, Karyn	Energy and Environmental Assistance Office	<b>Sponsor:</b> Mecklenburg County Land Use and Environmental Services Agency (LUESA)
<b>Metabolomic Profiling to Assess Disease Severity in Cystic Fibrosis</b>	\$16,000	<b>Principal Investigator (PI):</b> Sha, Wei	Bioinformatics and Genomics	<b>Sponsor:</b> University of North Carolina at Chapel Hill (UNC-CH) <b>Prime Sponsor:</b> Cystic Fibrosis Foundation
<b>Mid-spatial frequency specification and characterization for freeform surfaces</b>	\$16,608	<b>Principal Investigator (PI):</b> Davies, Angela <b>Co-PI:</b> Evans, Christopher	Physics and Optical Science	<b>Sponsor:</b> University of Rochester <b>Prime Sponsor:</b> All Other Business and Industry
<b>NCSIP IHE Partnership</b>	\$20,000	<b>Principal Investigator (PI):</b> Flynn, Lindsay <b>Co-PIs:</b> Hathaway, Jennifer; Pilonieta, Paola	Special Education and Child Development	<b>Sponsor:</b> North Carolina State Board of Education
<b>Numerical Methods for Studying Optical Absorption of Random Media and Quantum Dots for Solar Cell Designs</b>	\$159,906	<b>Principal Investigator (PI):</b> Cai, Wei	Mathematics and Statistics	<b>Sponsor:</b> Department of Defense (DOD) Department of Army (DA) Army Research Office (ARO)
<b>Programmatic Initiatives Support</b>	\$10,000	<b>Principal Investigator (PI):</b> Lewis, Chance	Middle, Secondary and K-12 Education	<b>Sponsor:</b> TresSports Interagency Collaborative (TIC)
<b>Story-Call: E-mobile Support for Community Caregivers of Veterans with Dementia</b>	\$56,136	<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 Center on Positive Behavioral Interventions and Supports</b>	\$50,000	<b>Principal Investigator (PI):</b> Algozzine, Robert	Educational Leadership	<b>Sponsor:</b> University of Oregon <b>Prime Sponsor:</b> US Department of Education (DOED)
<b>UNC Charlotte Center Collegiate Wellness and Recovery Program</b>	\$125,000	<b>Principal Investigator (PI):</b> Dooley, Beau	Center for Wellness Promotion	<b>Sponsor:</b> University of North Carolina General Administration (UNC GA) <b>Prime Sponsors:</b> North Carolina Department of Health and Human Services, Division of Mental Health, Developmental Disabilities and Substance Abuse Services (MHDDSAS)
<b>Victim Responses to Burglary</b>	\$49,999	<b>Principal Investigator (PI):</b> Kuhns, Joseph <b>Co-PIs:</b> Blevins, Kristie; Turner, Michael	Criminal Justice and Criminology	<b>Sponsor:</b> Alarm Industry Research and Education Foundation