

March 21, 2019

The Office of Research and Economic Development is pleased to announce awards received by UNC Charlotte Researchers in the month of February 2019.

*Total amount awarded for the month of February was \$4,006,490*

*Fiscal Year To Date Total: \$34,340,874*

<b>Award Title</b>	<b>Amount</b>	<b>Investigators</b>	<b>PI Dept.</b>	<b>Sponsors</b>
<b>2019 Charlotte City Walks: Discover Charlotte's Neighborhood Stories</b>	\$10,000	<b>Principal Investigator (PI):</b> Gaines, Angelique	Urban Institute	<b>Sponsor:</b> Foundation For The Carolinas (FFTC)
<b>An Interactive Technology Enhanced Coaching Intervention for Black Women with Hypertension</b>	\$149,397	<b>Principal Investigator (PI):</b> Abel, Willie	School of Nursing	<b>Sponsor:</b> National Institutes of Health (NIH)
<b>Autonomous Robot Swarms for Urban Coverage</b>	\$159,072	<b>Principal Investigator (PI):</b> Akella, Srinivas <b>Co-PI:</b> Shin, Min	Computer Science	<b>Sponsor:</b> DOD Defense Advanced Research Projects Agency (DARPA)
<b>CEEP NC Fall Funding Opportunity: UNC Charlotte Voting Shuttle</b>	\$1,500	<b>Principal Investigator (PI):</b> Johnson, Tamara	Metropolitan Studies and Extended Academic Programs	<b>Sponsor:</b> Ohio Campus Election Engagement Project (CEEP)
<b>Charlotte Community Services Association SMART Evaluation - Phase 1</b>	\$10,000	<b>Principal Investigator (PI):</b> Gavarkavich, Diane	Urban Institute	<b>Sponsor:</b> Charlotte Community Services Association
<b>Charlotte water environmental services and student experiential learning</b>	\$148,170	<b>Principal Investigator (PI):</b> Keen, Olya <b>Co-PI:</b> Bowen, James	Civil and Environmental Engineering	<b>Sponsor:</b> City of Charlotte
<b>Chemical Weapons, Human Experimentation, and Articulations of Power in the British Empire</b>	\$6,409	<b>Principal Investigator (PI):</b> Thorsheim, Peter	History	<b>Sponsor:</b> American Philosophical Society (APS)
<b>Collaborative Research: Judicial Diversity and Appellate Decision Making</b>	\$15,100	<b>Principal Investigator (PI):</b> Szmer, John	Political Science and Public Administration	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Collaborative: I/UCRC: Center for free form optics</b>	\$50,000	<b>Principal Investigator (PI):</b> Davies, Matthew	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> National Science Foundation (NSF)

<b>Award Title</b>	<b>Amount</b>	<b>Investigators</b>	<b>PI Dept.</b>	<b>Sponsors</b>
<b>Comparing Freeform Optics Metrology Solution</b>	\$47,307	<b>Principal Investigator (PI):</b> Evans, Christopher <b>Co-PI:</b> Falaggis, Konstantinos	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> University of Rochester
<b>CyPhy: Cyber-Secure Physical Layer Security in Millimeter Wave Communications</b>	\$55,000	<b>Principal Investigator (PI):</b> Wang, Pu	Computer Science	<b>Sponsor:</b> Idaho National Laboratory (INL) <b>Prime Sponsor:</b> Department of Energy (DOE)
<b>Design of Bio-Inorganic Hydrogels with Nanostructured Components</b>	\$21,732	<b>Principal Investigator (PI):</b> Afonin, Kirill	Chemistry	<b>Sponsor:</b> University of North Carolina System Office(UNC SysOff)
<b>Developing a biomarker panel to assess choline nutritional status</b>	\$8,873	<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> National Institutes of Health (NIH)
<b>Evaluation of ourBRIDGE for KIDS Led by UNCC-COED</b>	\$26,800	<b>Principal Investigator (PI):</b> Kolano, Lan <b>Co-PI:</b> Wang, Chuang	Middle, Secondary and K-12 Education	<b>Sponsor:</b> ourBRIDGE for KIDS <b>Prime Sponsor:</b> Foundation For The Carolinas (FFTC)
<b>Excitons and exciton-polaritons in novel organic-inorganic hybrids with sub-nano inorganic layers</b>	\$100,000	<b>Principal Investigator (PI):</b> Zhang, Yong <b>Co-PI:</b> Schmedake, Thomas	Electrical and Computer Engineering	<b>Sponsor:</b> DOD DA Army Research Office (ARO)
<b>Fundamentals of Power Engineering to Support Integration of Distributed Energy Resources, CAPERenhancement Project</b>	\$30,000	<b>Principal Investigator (PI):</b> Chowdhury, Badrul <b>Co-PI:</b> Cecchi, Valentina	Electrical and Computer Engineering	<b>Sponsor:</b> Clemson University <b>Prime Sponsor:</b> Duke Energy Corporation
<b>Healthy Wells</b>	\$42,211	<b>Principal Investigator (PI):</b> Delmelle, Eric	Geography and Earth Sciences	<b>Sponsor:</b> Gaston County Health Department <b>Prime Sponsor:</b> Centers for Disease Control and Prevention (CDC)

<b>Award Title</b>	<b>Amount</b>	<b>Investigators</b>	<b>PI Dept.</b>	<b>Sponsors</b>
<b>Integrating social and health data to advance equity and public health</b>	\$25,000	<b>Principal Investigator (PI):</b> Dulin, Michael <b>Co-PI:</b> Coffman, Maren	Deans Office College of Health and Human Services	<b>Sponsor:</b> Illinois Public Health Institute (IPHI) <b>Prime Sponsor:</b> Robert Wood Johnson Foundation (RWJF)
<b>Intergovernmental Personnel Act (IPA) Assignment</b>	\$196,626	<b>Principal Investigator (PI):</b> Mullany, Brigid	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Interpersonal Skills: Clarifying a Proliferated Construct Space and Proposing a Theoretical Framework</b>	\$277,654	<b>Principal Investigator (PI):</b> Heggestad, Eric <b>Co-PI:</b> Banks, George	Psychological Science	<b>Sponsor:</b> DOD DA Army Research Institute
<b>Mediating Catholicism: A Symposium on Global Catholic Media Practices</b>	\$4,986	<b>Principal Investigator (PI):</b> Hoenes, Eric	Religious Studies	<b>Sponsor:</b> American Academy of Religion (AAR)
<b>NCEMC Ex Ante Load Forecast Combination</b>	\$100,678	<b>Principal Investigator (PI):</b> Hong, Tao	Systems Engineering and Engineering Management	<b>Sponsor:</b> North Carolina Association of Electric Cooperatives (NCAEC)
<b>NSF iCorp: Polymer Semiconductor Educational Kits (PSEK)</b>	\$50,000	<b>Principal Investigator (PI):</b> Walter, Michael	Chemistry	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Pharmacoengineering approaches to enhance the immune response to neoantigens</b>	\$38,154	<b>Principal Investigator (PI):</b> Vivero-Escoto, Juan	Chemistry	<b>Sponsor:</b> University of North Carolina System Office(UNC SysOff)
<b>SBE: Small: Behavioral Control of Deceivers in Online Attacks</b>	\$112,337	<b>Principal Investigator (PI):</b> Zhou, Lina <b>Co-PI:</b> Zhang, Dongsong	Business Info Systems/Oper	<b>Sponsor:</b> National Science Foundation (NSF)
<b>SBIR: LightSecure Freeform See-Through Display</b>	\$42,577	<b>Principal Investigator (PI):</b> Owen, Joseph <b>Co-PI:</b> Davies, Matthew; Suleski, Thomas	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> Nanohmics, Inc. <b>Prime Sponsor:</b> Department of Defense (DOD)
<b>Standard: Establishing Norms of Data Ethics in Citizen Science</b>	\$9,184	<b>Principal Investigator (PI):</b> Rasmussen, Lisa	Philosophy	<b>Sponsor:</b> North Carolina State University (NCSU) <b>Prime Sponsor:</b> National Science Foundation (NSF)

<b>Award Title</b>	<b>Amount</b>	<b>Investigators</b>	<b>PI Dept.</b>	<b>Sponsors</b>
<b>STTR: Semi-Analytic Fresnel Propagation Simulation</b>	\$45,000	<b>Principal Investigator (PI):</b> Gbur, Gregory	Physics and Optical Science	<b>Sponsor:</b> MZA Associates Corporation <b>Prime Sponsor:</b> DOD DAF Air Force Office of Scientific Research (AFOSR)
<b>The TIES Center: Increasing Time, Instructional Effectiveness, Engagement, and State Support for Inclusive Practices for Students with Significant Cognitive Disabilities</b>	\$347,445	<b>Principal Investigator (PI):</b> Wakeman, Shawnee <b>Co-PIs:</b> Collins, Belva; Flowers, Claudia	Special Education and Child Development	<b>Sponsor:</b> University of Minnesota <b>Prime Sponsor:</b> US Department of Education (DOED)
<b>Tier 1 (Improving Mobility) Advanced Multimodal Mobility Solutions and Education</b>	\$1,400,100	<b>Principal Investigator (PI):</b> Fan, Wei <b>Co-PIs:</b> Weggel, David; Kane, Martin; Pando, Miguel; Wang, Yu	Civil and Environmental Engineering	<b>Sponsor:</b> US Department of Transportation (DOT)
<b>To prove the interplaying roles of central and peripheral immunity in Alzheimer's disease</b>	\$425,622	<b>Principal Investigator (PI):</b> Cho, Hansang <b>Co-PI:</b> Marriott, Ian	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> NIH National Institute on Aging (NIA)
<b>Training Engineers on the Selection and Application of Appropriate Tools for Advanced CFD Analyses</b>	\$42,960	<b>Principal Investigator (PI):</b> Uddin, Mesbah	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> Mitchell Community College
<b>Workshop/Collaborative Research: NSF Proposal Writing Workshop at 47th SME NAMRC and ASME MSEC 2019; Erie, Pennsylvania; June, 2019</b>	\$6,596	<b>Principal Investigator (PI):</b> Schmitz, Tony	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> National Science Foundation (NSF)