

October 4, 2018

The Office of Research and Economic Development is pleased to announce awards received by UNC Charlotte Researchers in the month of August 2018.

*Total amount awarded for the month of August was \$5,539,350*

*Fiscal Year To Date Total: \$10,191,157*

<b>Award Title</b>	<b>Amount</b>	<b>Investigators</b>	<b>PI Dept.</b>	<b>Sponsors</b>
<b>Air Force University Engineering Design Challenge</b>	\$25,000	<b>Principal Investigator (PI):</b> Browne, Aidan	Engineering Technology and Construction Management	<b>Sponsor:</b> Technology Service Corporation <b>Prime Sponsor:</b> DOD DAF Air Force Research Laboratory (AFRL)
<b>Archaeology of Imperial Hegemony and Atlantic Commercial Revolution in the Borderlands of Oyo Empire</b>	\$10,000	<b>Principal Investigator (PI):</b> Ogundiran, Akinwumi	Africana Studies	<b>Sponsor:</b> Felix and Mildred Yip Fellowship <b>Prime Sponsor:</b> University of Cambridge
<b>Broadening Participation with the STEM Ecosystem: Developing a Scalable Model using an RPP approach</b>	\$502,822	<b>Principal Investigator (PI):</b> Maher, Mary <b>Co-PIs:</b> Rorrer, Audrey; Pugalee, David; Cao, Lijuan; Dorodchi, Mohsen	Software and Information Systems	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Charlotte Mecklenburg Senior Center - Graduate Student Support</b>	\$40,970	<b>Principal Investigator (PI):</b> Moore-Harrison, Trudy	Kinesiology	<b>Sponsor:</b> Mecklenburg County Parks and Recreation Department
<b>Clinical Site Development Proposal</b>	\$10,000	<b>Principal Investigator (PI):</b> Evans, Dena	School of Nursing	<b>Sponsor:</b> North Carolina Area Health Education Center (NC AHEC) Program
<b>Continued Maintenance and Development of Software: Integrated Genome Browser and the Genoviz SDK, Visualization Software for Next-Generation Genomics</b>	\$372,456	<b>Principal Investigator (PI):</b> Lorraine, Ann	Bioinformatics and Genomics	<b>Sponsor:</b> NIH National Center for Research Resources (NCRR)
<b>Data-Driven Operation and Control of Active Power Distribution Systems with High Penetration of Distributed</b>	\$360,000	<b>Principal Investigator (PI):</b> Kamalasadan, Sukumar	Electrical and Computer Engineering	<b>Sponsor:</b> National Science Foundation (NSF)

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<b>Energy Resources and Energy Storage</b>		<b>Co-PI:</b> Han, Tao		
<b>EAGER: Biodegradable Hybrid Nanoparticles Containing Photosensitizing Agents</b>	\$99,987	<b>Principal Investigator (PI):</b> Vivero-Escoto, Juan	Chemistry	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Electro-Optical Combined Hyperspectral Imaging, Infrared Search and Track, and Long Range Imaging (EO-CHIL) Task Order 001</b>	\$25,000	<b>Principal Investigator (PI):</b> Davies, Matthew <b>Co-PIs:</b> Evans, Christopher; Owen, Joseph; Patterson, Steven; Suleski, Thomas	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> Leidos Corporation <b>Prime Sponsor:</b> DOD DAF Air Force Research Laboratory (AFRL)
<b>Evaluation Plan for SHARE Charlotte</b>	\$5,000	<b>Principal Investigator (PI):</b> Gavarkavich, Diane	Urban Institute	<b>Sponsor:</b> SHARE Charlotte
<b>Farida Yasmin Faculty for the Future award from the Schlumberger Foundation</b>	\$50,000	<b>Principal Investigator (PI):</b> Song, Bao-Hua	Biological Sciences	<b>Sponsor:</b> Schlumberger Foundation
<b>II-New: Collaborative: A Mixed Reality Environment for Enabling Everywhere Data-Centric Work</b>	\$77,860	<b>Principal Investigator (PI):</b> Lu, Aidong <b>Co-PI:</b> Davis, Nicholas	Computer Science	<b>Sponsor:</b> National Science Foundation (NSF)
<b>In vitro and cellular tools for complex polysaccharide biosynthesis</b>	\$130,332	<b>Principal Investigator (PI):</b> Troutman, Jerry <b>Co-PI:</b> Williams, Tiffany	Chemistry	<b>Sponsor:</b> National Institutes of Health (NIH)
<b>Intensive Needs Teachers and Counselor Training Project</b>	\$247,756	<b>Principal Investigator (PI):</b> Anderson, Kelly <b>Co-PIs:</b> Collins, Belva; Wood, Charles; Merlin, Clare; Foxx, Sejal	Special Education and Child Development	<b>Sponsor:</b> US Department of Education (DOED)

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<b>Introduction of WBG devices for Solid-State Circuit Breaking at the Medium Voltage Level</b>	\$215,278	<b>Principal Investigator (PI):</b> Manjrekar, Madhav <b>Co-PI:</b> Shoubaki, Ehab	Electrical and Computer Engineering	<b>Sponsor:</b> North Carolina State University (NCSSU) <b>Prime Sponsor:</b> Department of Energy (DOE)
<b>IPA with DARPA to serve as Program Manager in the Defense Sciences Office</b>	\$272,439	<b>Principal Investigator (PI):</b> Fiddy, Michael	Physics and Optical Science	<b>Sponsor:</b> DOD Defense Advanced Research Projects Agency (DARPA)
<b>Large Optical Windows with High Laser Damage Threshold</b>	\$1.00	<b>Principal Investigator (PI):</b> Aggarwal, Ishwar <b>Co-PIs:</b> Wilson, Christopher; Poutous, Menelaos	Physics and Optical Science	<b>Sponsor:</b> DOD DN Naval Research Laboratory
<b>Marshall Research Phase V</b>	\$122,740	<b>Principal Investigator (PI):</b> Kamalasadan, Sukumar	Electrical and Computer Engineering	<b>Sponsor:</b> Duke Energy Corporation
<b>MICROBIOME AND SEVERE WEIGHT DYSREGULATION IN ANOREXIA NERVOSA SUPPLEMENT TO R01MH105684</b>	\$46,836	<b>Principal Investigator (PI):</b> Fodor, Anthony	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>Microbiome-mediated weight, anxiety, and stress dysregulation in anorexia nervosa.</b>	\$85,359	<b>Principal Investigator (PI):</b> Fodor, Anthony <b>Co-PI:</b> Sun, Shan	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>National Science Foundation Graduate Research Fellowship Program</b>	\$189,000	<b>Principal Investigator (PI):</b> Reynolds, Thomas	Graduate School	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Nurse Anesthesia Traineeship, UNC Charlotte</b>	\$28,569	<b>Principal Investigator (PI):</b> Langford, David	School of Nursing	<b>Sponsor:</b> Health Resources and Services Administration (HRSA)

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<b>Optimization of BioProcessing for Dry Preservation of GVs</b>	\$75,500	<b>Principal Investigator (PI):</b> Elliott, Gloria <b>Co-PI:</b> Wang, Shangping	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> Smithsonian Institution (SI) <b>Prime Sponsor:</b> National Institutes of Health (NIH)
<b>Phase II IUCRC University of North Carolina Charlotte: Center for Cybersecurity Analytics and Automation CCAA</b>	\$128,714	<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>Power Electronics Teaching Lab Incorporating WBG Semiconductor Switches and Circuits</b>	\$88,148	<b>Principal Investigator (PI):</b> Parkhideh, Babak <b>Co-PIs:</b> Mazzola, Michael; Cox, Robert	Electrical and Computer Engineering	<b>Sponsor:</b> North Carolina State University (NCSSU) <b>Prime Sponsor:</b> Department of Energy (DOE)
<b>SaTC: CORE: Small: Collaborative: Leveraging community oversight to enhance collective efficacy for privacy and security</b>	\$186,912	<b>Principal Investigator (PI):</b> Lipford, Heather	Software and Information Systems	<b>Sponsor:</b> National Science Foundation (NSF)
<b>SaTC: CORE: Small: Collaborative: Techniques for Enhancing the Security and Trust of FPGAs-Based Systems</b>	\$100,000	<b>Principal Investigator (PI):</b> Saqib, Fareena	Electrical and Computer Engineering	<b>Sponsor:</b> National Science Foundation (NSF)
<b>SBA Carry Forward - Summer Internship</b>	\$2,202	<b>Principal Investigator (PI):</b> McAllister, George	Small Business Technology Development Center (SBTDC)	<b>Sponsor:</b> North Carolina Small Business and Technology Development Center (NC SBTDC) <b>Prime Sponsor:</b> US Small Business Administration (SBA)
<b>SBIR: Additive Manufacturing of Silicon Carbide Components</b>	\$31,982	<b>Principal Investigator (PI):</b> Schmitz, Tony <b>Co-PI:</b> El-Ghannam, Ahmed	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> OptiPro Systems <b>Prime Sponsor:</b> National Aeronautics and Space Administration (NASA)
<b>Transition to a Western Diet and cardiometabolic risk: Biomarkers derived from the microbiome.</b>	\$112,503	<b>Principal Investigator (PI):</b> Fodor, Anthony <b>Co-PIs:</b> Winglee, Kathryn; Sun, Shan; 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)

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<b>UNC Charlotte PhD Program in Special Education with a Specialty in Multi-tiered Interventions</b>	\$249,996	<b>Principal Investigator (PI):</b> Wood, Charles <b>Co-PI:</b> Lo, Ya-yu	Special Education and Child Development	<b>Sponsor:</b> US Department of Education (DOED)
<b>UNCC S-STEM: Engineering Academic Pathways</b>	\$999,591	<b>Principal Investigator (PI):</b> Tempest, Brett <b>Co-PIs:</b> Lewis, Chance; Foxx, Sejal; Galloway, Stephanie	Civil and Environmental Engineering	<b>Sponsor:</b> National Science Foundation (NSF)
<b>University of North Carolina at Charlotte PhD Program 2014</b>	\$250,000	<b>Principal Investigator (PI):</b> Test, David	Special Education and Child Development	<b>Sponsor:</b> US Department of Education (DOED)
<b>Visual Analytics on the spread of Pathogens</b>	\$82,297	<b>Principal Investigator (PI):</b> Janies, Daniel <b>Co-PI:</b> Carter, Tamar	Bioinformatics and Genomics	<b>Sponsor:</b> Ohio State University College of Medicine <b>Prime Sponsor:</b> DOD Defense Threat Reduction Agency (DTRA)
<b>ZapGo Energy Storage Module Testing</b>	\$314,100	<b>Principal Investigator (PI):</b> Manjrekar, Madhav; <b>Co-PI:</b> Mazzola, Michael	Energy Production and Infrastructure Center	<b>Sponsor:</b> ZapGo, Inc.