

July 20, 2018

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

Total amount awarded for the month of June was \$8,438,666

Fiscal Year To Date Total: \$50,727,242

<b>Award Title</b>	<b>Amount</b>	<b>Investigators</b>	<b>PI Dept.</b>	<b>Sponsors</b>
<b>2018 Freedom School Assessment Project</b>	\$48,472	<b>Principal Investigator (PI):</b> Taylor, David	Reading and Elementary Education	<b>Sponsor:</b> Freedom School Partners
<b>2018-2019 NC Coaching, Mentoring, Performance Evaluation and Professional Development for Birth through Kindergarten Licensed Teachers Employed in Nonpublic School Classrooms</b>	\$1,732,971	<b>Principal Investigator (PI):</b> Lambert, Richard	Educational Leadership	<b>Sponsor:</b> North Carolina Department of Health and Human Services (NCDHHS)
<b>ABI Development: Pathview: a systematic solution for pathway based analytics and visualization</b>	\$233,069	<b>Principal Investigator (PI):</b> Luo, Weijun	Bioinformatics Research Center	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Acquisition of a Multifunctional PicoIndenter System for in situ Correlative Materials Characterization of Small-Scaled Structures</b>	\$7,500	<b>Principal Investigator (PI):</b> Xu, Ting	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> Department of Defense (DOD)
<b>Applied spectral problems in population dynamics, bio-physics and physical chemistry</b>	\$77,549	<b>Principal Investigator (PI):</b> Molchanov, Stanislav <b>Co-PI:</b> Vainberg, Boris	Mathematics and Statistics	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Archaeology of Urban Mosaic in the Metropolitan Area of Oyo Empire (West Africa)</b>	\$6,000	<b>Principal Investigator (PI):</b> Ogundiran, Akinwumi	Africana Studies	<b>Sponsor:</b> American Philosophical Society (APS)
<b>Au nano-linker: Turning standard AML drugs into lineage-targeted therapeutics</b>	\$100,000	<b>Principal Investigator (PI):</b> Egusa, Shunji	Physics and Optical Science	<b>Sponsor:</b> Leukemia Research Foundation
<b>Bacterial community composition in the bioreactor for FGD Wastewater</b>	\$77,885	<b>Principal Investigator (PI):</b> Munir, Mariya	Civil and Environmental Engineering	<b>Sponsor:</b> Duke Energy Corporation

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<b>Basic Ordering Agreement: Securing American Manufacturing (SAM)</b>	\$660,840	<b>Principal Investigator (PI):</b> Browne, Aidan <b>Co-PIs:</b> Watson, Stacey; Moyer, Thomas; Williams, Wesley	Engineering Technology and Construction Management	<b>Sponsor:</b> Consolidated Nuclear Security, LLC (CNS) <b>Prime Sponsor:</b> Department of Energy (DOE)
<b>Biohacking</b>	\$4,400	<b>Principal Investigator (PI):</b> Hull, Gordon	Philosophy	<b>Sponsor:</b> North Carolina Biotechnology Center (NCBC)
<b>Bromide Removal from Energy Wastewater and Impacted Drinking Water Source Using Electrically Conductive Membranes</b>	\$149,438	<b>Principal Investigator (PI):</b> Sun, Mei	Civil and Environmental Engineering	<b>Sponsor:</b> US Department of the Interior (DOI)
<b>Building Uplifted Families - UNCC BUILD Grant Subcontract</b>	\$85,000	<b>Principal Investigator (PI):</b> Scott, Victoria <b>Co-PI:</b> Dulin, Michael	Psychological Science	<b>Sponsor:</b> Renaissance West Community Initiative <b>Prime Sponsor:</b> The Build Health Challenge
<b>CAREER: Integrative Approaches to Uncovering Complex Genotype-Phenotype Relationships in High Dimensional Genomics Data</b>	\$109,051	<b>Principal Investigator (PI):</b> Shi, Xinghua	Bioinformatics and Genomics	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Carolina's Militiamen 1865-1898</b>	\$25000	<b>Principal Investigator (PI):</b> Mixon, Gregory	History	<b>Sponsor:</b> Fulbright Scholar Program
<b>Charlotte Biology and Biotechnology Exchange Group</b>	\$4,500	<b>Principal Investigator (PI):</b> Yan, Shan	Biological Sciences	<b>Sponsor:</b> North Carolina Biotechnology Center (NCBC)
<b>Charlotte Regional Integrated Behavioral Health Scholars (CRIBHS)</b>	\$440,131	<b>Principal Investigator (PI):</b> Kulkarni, Shanti <b>Co-PIs:</b> Peters, Amy; Powers, Kelly; Coffman, Maren; Suclupe, Roger; Hatcher, Schnavia; Moore-Harrison, Trudy	School of Social Work	<b>Sponsor:</b> Department of Health and Human Services (DHHS) Health Resources and Services Administration (HRSA)

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<b>CHEM101 at the North Carolina Research Campus</b>	\$3,000	<b>Principal Investigator (PI):</b> Brouwer, Cory	Bioinformatics and Genomics	<b>Sponsor:</b> North Carolina Biotechnology Center (NCBC)
<b>Collaborative Research: AGEP Transformation Alliance: A Department-Led Model for Increasing Diversity from the Doctorate to the Professoriate</b>	\$238,944	<b>Principal Investigator (PI):</b> Huet, Yvette <b>Co-PI:</b> Merriweather, Lisa	Advance Fado	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Collaborative Research: Preparing to Teach Mathematics with Technology - Examining Student Practice [PTMT-ESP]</b>	\$521,022	<b>Principal Investigator (PI):</b> McCulloch, Allison	Mathematics and Statistics	<b>Sponsor:</b> National Science Foundation (NSF)
<b>CRII: SaTC: A Language Based Approach to Hybrid Mobile App Security</b>	\$34,986	<b>Principal Investigator (PI):</b> Sridhar, Meera	Software and Information Systems	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Cyber Vulnerability of Electrical Power Systems using Distributed Synchrophasors</b>	\$22,500	<b>Principal Investigator (PI):</b> Manjrekar, Madhav <b>Co-PIs:</b> Chowdhury, Badrul; Saqib, Fareena	Electrical and Computer Engineering	<b>Sponsor:</b> Center for Advanced Power Engineering Research (CAPER) <b>Prime Sponsor:</b> Clemson University
<b>Deception Detection, Tracking and Factuality Assessment in Social and News Media</b>	\$10,029	<b>Principal Investigator (PI):</b> Dou, Wenwen	Computer Science	<b>Sponsor:</b> Department of Energy (DOE) Pacific Northwest National Laboratory (PNNL)
<b>DeepHyd: A Deep Learning-based Artificial Intelligence Approach for the Automated Classification of Hydraulic Structures from LiDAR and Sonar Data</b>	\$398,189	<b>Principal Investigator (PI):</b> Tang, Wenwu <b>Co-PIs:</b> Allan, Craig; Diemer, John; Chen, Shen-En	Geography and Earth Sciences	<b>Sponsor:</b> North Carolina Department of Transportation (NCDOT) <b>Prime Sponsor:</b> US Department of Transportation (DOT)
<b>Developing a biomarker panel to assess choline nutritional status</b>	\$23,415	<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)

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<b>Evaluating Corrosive Site Performance and Policy with Concrete Admixtures</b>	\$271,722	<b>Principal Investigator (PI):</b> Tempest, Brett <b>Co-PI:</b> Cavalline, Tara	Civil and Environmental Engineering	<b>Sponsor:</b> North Carolina Department of Transportation (NCDOT) <b>Prime Sponsor:</b> US Department of Transportation (DOT)
<b>Evaluation of a Two-bar Metal Bridge Rail for Compliance with 2016 Edition of Manual for Assessing Safety Hardware (MASH)</b>	\$425,834	<b>Principal Investigator (PI):</b> Fang, Hongbing	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> North Carolina Department of Transportation (NCDOT)
<b>Field-Scale Testing of Hydrology of Water Balance Covers</b>	\$35,367	<b>Principal Investigator (PI):</b> Khire, Milind	Civil and Environmental Engineering	<b>Sponsor:</b> Waste Management, Inc.
<b>Freight Planning Tool for Ferry Division</b>	\$91,996	<b>Principal Investigator (PI):</b> Mayo, Glenda <b>Co-PI:</b> Smithwick, Jake	Engineering Technology and Construction Management	<b>Sponsor:</b> North Carolina Department of Transportation (NCDOT)
<b>Fulbright All-Disciplines Award (Research) for Colombia</b>	\$26,000	<b>Principal Investigator (PI):</b> Saenz-Ludlow, Adalira	Mathematics and Statistics	<b>Sponsor:</b> Fulbright Scholar Program
<b>Full Scale Testing Program for Tindall Slab System</b>	\$15,836	<b>Principal Investigator (PI):</b> Braxtan, Nicole <b>Co-PIs:</b> Tempest, Brett; Whelan, Matthew;	Civil and Environmental Engineering	<b>Sponsor:</b> Tindall Corporation
<b>Furthering the Study of Election Cost</b>	\$20,000	<b>Principal Investigator (PI):</b> Mohr, Zachary <b>Co-PI:</b> Kropf, Martha	Political Science and Public Administration	<b>Sponsor:</b> Massachusetts Institute of Technology (MIT)
<b>Graduate Assistantship - Evaluation Coordinator: UNCC-CltBP Dual Language Innovation Classroom Evaluation</b>	\$17,039	<b>Principal Investigator (PI):</b> Kilmer, Ryan <b>Co-PIs:</b> Cook, James; Armstrong, Laura	Psychological Science	<b>Sponsor:</b> Charlotte Bilingual Preschool
<b>Hexacoordinate silicon complexes for electronic devices</b>	\$454,984	<b>Principal Investigator (PI):</b> Schmedake, Thomas <b>Co-PIs:</b> Walter, Michael; Zhang, Yong	Chemistry	<b>Sponsor:</b> National Science Foundation (NSF)

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<b>HRSA Scholarships for Disadvantaged Students - Behavioral Health Scholars Program</b>	\$598,785	<b>Principal Investigator (PI):</b> Hatcher, Schnavia	School of Social Work	<b>Sponsor:</b> Health Resources and Services Administration (HRSA)
<b>Identifying Recurrent Tandem Mass Spectra from Authentic Biological Samples</b>	\$37,785	<b>Principal Investigator (PI):</b> Cooper, Brian	Chemistry	<b>Sponsor:</b> Department of Commerce (DOC) National Institute of Standards and Technology (NIST) <b>Prime Sponsor:</b> Department of Commerce (DOC)
<b>Improving officer decision-making: Can personality predict outcomes in use of force decisions?</b>	\$432,159	<b>Principal Investigator (PI):</b> Exum, Myron <b>Co-PIs:</b> Kuhns, Joseph; Dewitt, Samuel; Listwan, Shelley	Criminal Justice and Criminology	<b>Sponsor:</b> Department of Justice (DOJ) National Institute of Justice (NIJ)
<b>Investigation of the Interaction of Multiple Infrared Filters with Long Wavelength Infrared Spectra of Explosives and Interferents</b>	\$40,000	<b>Principal Investigator (PI):</b> Aggarwal, Ishwar <b>Co-PIs:</b> Wilson, Christopher; Poutous, Menelaos; Hutchens, Thomas	Physics and Optical Science	<b>Sponsor:</b> Department of Defense (DOD) Department of the Navy (DN) Office of Naval Research (ONR)
<b>Joy Charter School TIMS Computerized Bus Routing Project 2018-19</b>	\$2,700	<b>Principal Investigator (PI):</b> Pressley, JoAnne	Urban Institute	<b>Sponsor:</b> Maureen Joy Charter School
<b>Lake Wylie Marine Commission Internship: Effects of native plants to mediate sediment inputs to Lake Wylie</b>	\$4,821	<b>Principal Investigator (PI):</b> Clinton, Sandra	Geography and Earth Sciences	<b>Sponsor:</b> Lake Wylie Marine Commission
<b>LCS International Film Festival - Tournees</b>	\$2,200	<b>Principal Investigator (PI):</b> Bissiere, Michele <b>Co-PI:</b> LaMarca, Mary	Languages and Culture Studies	<b>Sponsor:</b> French American Cultural Exchange (FACE)
<b>Lung Diseases among Coal Miners</b>	\$37,750	<b>Principal Investigator (PI):</b> Arif, Ahmed <b>Co-PIs:</b> Blanchette, Christopher; Noone, Joshua	Public Health Sciences	<b>Sponsor:</b> University of Kentucky (UK) <b>Prime Sponsor:</b> Department of Health and Human Services (DHHS) Health Resources and Services Administration (HRSA)

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<b>Mecklenburg County Senior Citizen Health Risk Assessment Testing Outreach Program</b>	\$182,671	<b>Principal Investigator (PI):</b> Moore-Harrison, Trudy <b>Co-PI:</b> Arthur, Susan	Kinesiology	<b>Sponsor:</b> Sharon Towers Retirement Community
<b>Milk Delivery: The Queer Newspaper Columns of Harvey Milk</b>	\$9,000	<b>Principal Investigator (PI):</b> Black, Jason	Communication Studies	<b>Sponsor:</b> Villanova University Waterhouse Family Institute
<b>NCEMC Delivery Point Level Load Forecasting</b>	\$96,663	<b>Principal Investigator (PI):</b> Hong, Tao	Systems Engineering and Engineering Management	<b>Sponsor:</b> North Carolina Association of Electric Cooperatives (NCAEC)
<b>Opening the Black Box: Measuring Statewide Noncredit Outcomes in Iowa</b>	\$1,000	<b>Principal Investigator (PI):</b> D'Amico, Mark	Educational Leadership	<b>Sponsor:</b> Center for the Study of Community Colleges
<b>PTAC - DLA 2018-19</b>	\$84,613	<b>Principal Investigator (PI):</b> McIntire, Robin	Small Business Technology Development Center (SBTDC)	<b>Sponsor:</b> NC Small Business Technology Development Council <b>Prime Sponsor:</b> Department of Defense (DOD) Defense Logistics Agency
<b>Regional EC Education Consultant and State Performance Plan Consultant</b>	\$364,626	<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>Regulation of floral growth and patterning in Arabidopsis thaliana</b>	\$6,034	<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>REU Site: Examining the Intersection of Food, Housing and Healthcare in the Beatties Ford Road Corridor, Charlotte, NC</b>	\$31,560	<b>Principal Investigator (PI):</b> Peterson, Nicole <b>Co-PI:</b> Freidus, Andrea	Anthropology	<b>Sponsor:</b> Davidson College <b>Prime Sponsor:</b> National Science Foundation (NSF)

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<b>Risk Factors for Microscopic Colitis</b>	\$4,426	<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>Sugar Creek Charter School TIMS Computerized Bus Routing Project 2018-19</b>	\$2,700	<b>Principal Investigator (PI):</b> Pressley, JoAnne	Urban Institute	<b>Sponsor:</b> Sugar Creek Charter School
<b>Tailoring Mg-alloy System through Composition/Microstructure/Severe Plastic Deformation for Army Extreme Dynamic Environment Applications</b>	\$54,810	<b>Principal Investigator (PI):</b> Wei, Qiuming	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> Johns Hopkins University <b>Prime Sponsor:</b> Department of Defense (DOD) Department of the Army (DA) Army Corps of Engineers
<b>Technology-Rich Units for Future Secondary Teachers: Forging Mathematical Connections Through the Geometry of Functions</b>	\$21,069	<b>Principal Investigator (PI):</b> McCulloch, Allison	Mathematics and Statistics	<b>Sponsor:</b> North Carolina State University (NCSU) <b>Prime Sponsor:</b> National Science Foundation (NSF)
<b>The Impact of The Relatives Housing Programs (Phase I)</b>	\$24,000	<b>Principal Investigator (PI):</b> Lane, Justin <b>Co-PI:</b> Gavarkavich, Diane	Urban Institute	<b>Sponsor:</b> The Relatives
<b>Ventureprise Launch and Charlotte Venture Challenge</b>	\$1,625	<b>Principal Investigator (PI):</b> Collins, Devin	Ventureprise	<b>Sponsor:</b> North Carolina Biotechnology Center (NCBC)
<b>Virtual School Mental Health Team</b>	\$25,000	<b>Principal Investigator (PI):</b> Lewis, Chance <b>Co-PI:</b> Richardson, Sonyia	Middle, Secondary and K-12 Education	<b>Sponsor:</b> Foundation For The Carolinas (FFTC)