

May 22, 2017

The Office of Research and Economic Development is pleased to announce awards received by UNC Charlotte Researchers in the month of April, 2017.

Total amount awarded for the month of April was \$6,254,492

Fiscal Year To Date Total: \$41,444,271

Award Title	Amount	Investigators	PI Dept.	Sponsors
"Black Enchantress": Hannah Elias, Interracial Sex, Murder, and Civil Rights in Jim Crow New York	\$6,000	Principal Investigator (PI): Hicks, Cheryl	History	Sponsor: American Philosophical Society (APS)
A Planning Project to Address Unintended Pregnancy in Mecklenburg County, North Carolina	\$124,848	Principal Investigator (PI): Dulin, Michael Co-PI: Gavarkavich, Diane	Public Health Sciences	Sponsor: Foundation For The Carolinas (FFTC) Prime Sponsor: 1000 Feathers
Anson County Community Health Assessment 2017-18	\$21,411	Principal Investigator (PI): Zager, Kathryn	Urban Institute	Sponsor: Carolinas Healthcare System Anson
Arousal and Immune Response in Women taking Hormonal Contraceptives (AIR-HC)	\$1,000	Principal Investigator (PI): Lorenz, Tierney	Psychology	Sponsor: American Psychological Foundation (APF)
Beacon Initiative	\$11,100	Principal Investigator (PI): Polly, Andrew Co-PIs: Medina, Adriana; Putman, Stephan	Reading and Elementary Education	Sponsor: Charlotte-Mecklenburg County Board of Education Prime Sponsor: US Department of Education (DOED)
Beyond the North Star: Mastering Common Core Standards through Innovative Professional Development of Teachers in High Needs Schools	\$279,957	Principal Investigator (PI): Kissau, Scott Co-PIs: Pugalee, David; Kolano, Lan; Stephan, Michelle	Middle, Secondary and K-12 Education	Sponsor: University of North Carolina General Administration (UNC GA) Prime Sponsor: US Department of Education (DOED)
Building Healthy Lifestyles from All Directions	\$2,000	Principal Investigator (PI): Racine, Elizabeth	Public Health Sciences	Sponsor: Cabarrus Partnership for Children
CAREER: Machine and Structure Oblivious Graph Analytics	\$281,305	Principal Investigator (PI): Saule, Erik	Computer Science	Sponsor: National Science Foundation (NSF)

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Catawba Basin Upland Watershed Observatory: A Partnership for Long-Term Water Research and Education	\$76,521	Principal Investigator (PI): Eppes, Martha Co-PI: Vinson, David	Geography and Earth Sciences	Sponsor: North Carolina Community Foundation Prime Sponsor: Duke Energy Foundation
Charlotte Biology and Biotechnology Exchange Group	\$4,500	Principal Investigator (PI): Yan, Shan	Biological Sciences	Sponsor: North Carolina Biotechnology Center (NCBC)
Charlotte Biomedical Science and Engineering 2017	\$1,000	Principal Investigator (PI): Lee, Charles	Mechanical Engineering and Engineering Science	Sponsor: North Carolina Biotechnology Center (NCBC)
Collaborative Research: Improved Freeform Measurement through Fiber-based Metrology	\$115,000	Principal Investigator (PI): Tarbutton, Joshua Co-PI: Schmitz, Tony	Mechanical Engineering and Engineering Science	Sponsor: National Science Foundation (NSF)
Computational Model for Spacecraft/Habitat Volume	\$80,000	Principal Investigator (PI): Hsiang, Simon Co-PI: Lim, Churlzu	Systems Engineering and Engineering Management	Sponsor: National Aeronautics and Space Administration (NASA) Johnson Space Center
Confidential	\$2,785,957	Principal Investigator (PI): Daniels, John	Civil and Environmental Engineering	Sponsor: Confidential Prime Sponsor: Confidential
ECOHAB: Integrating Cell and Toxin Cycles of <i>Karlodinium veneficum</i> with Key Environmental Regulators: In Situ Studies of Predictive Determinants for Bloom Toxicity	\$90,261	Principal Investigator (PI): Parrow, Matthew	Biological Sciences	Sponsor: National Oceanic and Atmospheric Administration (NOAA) National Ocean Service (NOS) National Centers for Coastal Ocean Science (NCCOS) Center for Sponsored Coastal Ocean Research (CSOR)
Experimental Determination and Modeling of Used Fuel Drying by Vacuum and Gas Circulation for Dry Cask Storage Introduction/Background	\$21,615	Principal Investigator (PI): Tarbutton, Joshua	Mechanical Engineering and Engineering Science	Sponsor: University of South Carolina (USC) Prime Sponsor: Department of Energy (DOE)
GOALI: Exploiting Period-n Bifurcations to Reduce Milling Cost	\$16,000	Principal Investigator (PI): Schmitz, Tony	Mechanical Engineering and Engineering Science	Sponsor: National Science Foundation (NSF)

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Graduate Assistantship at United Way of Central Carolinas	\$17,719	Principal Investigator (PI): Kilmer, Ryan Co-PI: Cook, James	Psychological Science	Sponsor: United Way of Central Carolinas
In vitro and cellular tools for complex polysaccharide biosynthesis	\$296,209	Principal Investigator (PI): Troutman, Jerry	Chemistry	Sponsor: National Institutes of Health (NIH)
Large Optical Windows with High Laser Damage Threshold	\$550,000	Principal Investigator (PI): Aggarwal, Ishwar Co-PIs: Wilson, Christopher; Major, Kevin; Poutous, Menelaos	Physics and Optical Science	Sponsor: Department of Defense (DOD) Department of the Navy (DN) Naval Research Laboratory
Mecklenburg County Public Service Fellowship	\$5,245	Principal Investigator (PI): Barth, Thomas	Political Science and Public Administration	Sponsor: Charlotte-Mecklenburg County Government
NSF/CISE Computer Systems Research 2017 PI Meeting	\$212,946	Principal Investigator (PI): Saule, Erik	Computer Science	Sponsor: National Science Foundation (NSF)
Poverty Mapping for the Mooresville Soup Kitchen	\$1,260	Principal Investigator (PI): Tang, Wenwu	Geography and Earth Sciences	Sponsor: Mooresville Soup Kitchen
RCN-SEES: Predictive Modeling Network for Sustainable Human-Building Ecosystems (SHBE).	\$35,025	Principal Investigator (PI): Tolone, William Co-PI: Hadzikadic, Mirsad	Software and Information Systems	Sponsor: Nova Southeastern University Prime Sponsor: National Science Foundation (NSF)
Research on Machine Learning based Knowledge Embedding and Inference/Knowledge Completion (KEI/KC) and Data De-Identifdcation (DDI) considering IoE environment	\$150,000	Principal Investigator (PI): Park, Noseong Co-PI: Shehab, Mohamed	Software and Information Systems	Sponsor: Electronics and Telecommunications Research Institute (ETRI)
The Second Global Organ Banking Summit: Convergence of Scientific Fields and Technical Domains	\$18,000	Principal Investigator (PI): Elliott, Gloria	Mechanical Engineering and Engineering Science	Sponsor: Department of Health and Human Services (DHHS) National Institutes of Health (NIH) Office of Extramural Research

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Understanding the complexity of the transcriptomes in E. coli K12	\$258,646	Principal Investigator (PI): Su, ZhengChang	Bioinformatics and Genomics	Sponsor: National Institutes of Health (NIH) National Institute of General Medical Sciences (NIGMS)
University of North Carolina at Charlotte Culturally Responsive Teaching (UNCC CResT)	\$653,662	Principal Investigator (PI): Fernandes, Anthony Co-PIs: Pugalee, David; Harris, Mary	Mathematics and Statistics	Sponsor: National Science Foundation (NSF)
Violent Non-State Rivalry and Organizational Behavior	\$137,305	Principal Investigator (PI): Conrad, Justin	Political Science and Public Administration	Sponsor: National Science Foundation (NSF)