

June 26, 2018

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

Total amount awarded for the month of May was \$3398235

Fiscal Year To Date Total: \$42,288,576

Award Title	Amount	Investigators	PI Dept.	Sponsors
Agility In Depth: A formal framework for cyber agility composition	\$20,000	Principal Investigator (PI): Al-Shaer, Ehab	Software and Information Systems	Sponsor: Army Research Office (ARO)
AISL: Collaborative: Innovations in Development: Community-Driven Projects That Adapt Technology for Environmental Learning in Nature Preserves	\$7,541	Principal Investigator (PI): Maher, Mary Co-PI: Grace, Kazjon	Software and Information Systems	Sponsor: National Science Foundation (NSF)
Bethlehem Center of Charlotte Community Needs Assessment	\$7,500	Principal Investigator (PI): Lewis, Chance	Middle, Secondary and K-12 Education	Sponsor: Bethlehem Center of Charlotte
Building Leadership for Change through School Immersion: Twenty-Three (23) English Language Teachers	\$903,271	Principal Investigator (PI): Ladenheim, Rachel Co-PI: Sheryl Meyer	Intercultural Outreach	Sponsor: Saudi Arabian Cultural Mission (SACM) Prime Sponsor: Kingdom of Saudi Arabia Ministry of Education
Charlotte Biomedical 2018	\$2,500	Principal Investigator (PI): Lee, Charles	Mechanical Engineering and Engineering Science	Sponsor: North Carolina Biotechnology Center (NCBC)
Develop Local Functional Classification VMT and AADT Estimation Method	\$167,131	Principal Investigator (PI): Pulugurtha, Srinivas Co-PI: Duddu, Venkata Ramana	Civil and Environmental Engineering	Sponsor: North Carolina Department of Transportation (NCDOT)
Dissemination and implementation of a virtual care model for Parkinson disease and other chronic conditions	\$25,000	Principal Investigator (PI): Dulin, Michael	Deans Office College of Health and Human Services	Sponsor: University of Rochester Prime Sponsor: Patient-Centered Outcomes Research Institute (PCORI)
EPIC Affiliates Industry Memberships for seed funded projects	\$10,000	Principal Investigator (PI): Kopitopoulou, Christina	Energy Production and Infrastructure Center	Sponsor: Energy Production and Infrastructure Center (EPIC) Affiliates Industry Members

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Evaluation and optimization of engineered media amendments for contaminant removal in stormwater runoff filtration systems	\$249,769	Principal Investigator (PI): Sun, Mei Co-PIs: Vinson, David; Munir, Mariya	Civil and Environmental Engineering	Sponsor: North Carolina Department of Transportation (NCDOT)
Habitat Charlotte Neighborhood Quality of Life	\$41,500	Principal Investigator (PI): Lane, Justin	Urban Institute	Sponsor: Habitat for Humanity Charlotte
In vitro and cellular tools for complex polysaccharide biosynthesis	\$283,819	Principal Investigator (PI): Troutman, Jerry Co-PI: Williams, Tiffany	Chemistry	Sponsor: National Institutes of Health (NIH)
Laboratory Testing of Braced Post (Composite) Insulators to Determine 3D Load-Carrying Capacities	\$8,794	Principal Investigator (PI): Young, David	Civil and Environmental Engineering	Sponsor: Electric Power Research Institute (EPRI)
LBST 2101 Echoes of the Holocaust (online)	\$4,000	Principal Investigator (PI): Lansen, Oscar	History	Sponsor: Northwestern University
Microbial Endocrinology as a Mechanism Governing Stress-Induced Microbiome-Gut-Brain Communication	\$16,388	Principal Investigator (PI): Fodor, Anthony	Bioinformatics Research Center	Sponsor: Iowa State University Prime Sponsor: Department of Defense (DOD) Department of the Navy (DN) Office of Naval Research (ONR)
Non-contact Dimensional Inspection: Phase 2	\$166,783	Principal Investigator (PI): Morse, Edward	Mechanical Engineering and Engineering Science	Sponsor: Honeywell, Inc. Prime Sponsor: Department of Energy (DOE)
NSF Student Travel Grant for the 2018 Symposium on Usable Privacy and Security (SOUPS)	\$18,000	Principal Investigator (PI): Lipford, Heather	Software and Information Systems	Sponsor: National Science Foundation (NSF)
Optimization Tools and Strategies for Machining Near-Net-Shapes	\$90,000	Principal Investigator (PI): Schmitz, Tony	Mechanical Engineering and Engineering Science	Sponsor: Rolls-Royce, PLC Prime Sponsor: Department of Defense (DOD) Department of the Air Force (DAF) Air Force Research Laboratory (AFRL)

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Oral History Project for the USDA Forest Service Reunion at the Cradle	\$10,000	Principal Investigator (PI): Shapiro, Aaron	History	Sponsor: United States Department of Agriculture (USDA) US Forest Service (FS)
Predictive Cancer Diagnostics and Therapy Response	\$111,338	Principal Investigator (PI): Mukherjee, Pinku	Biological Sciences	Sponsor: Michigan State University (MSU) Prime Sponsor: National Institutes of Health (NIH) National Cancer Institute (NCI)
Preserving the Harvey B. Gantt 1996 Senate Campaign Recordings	\$18,740	Principal Investigator (PI): Schmitz, Dawn Co-PI: Johnston, Rita	Library Special Collections	Sponsor: Council on Library and Information Resources (CLIR)
Program Evaluation of Drug-Free Communities Support Program	\$12,000	Principal Investigator (PI): Reynolds, Andrew	School of Social Work	Sponsor: Charlotte Mecklenburg County Prime Sponsor: Substance Abuse and Mental Health Services Administration (SAMHSA)
Project SEED 2018	\$5,500	Principal Investigator (PI): Walter, Michael Co-PIs: Bejger, Christopher; Rabinovich, Daniel; Afonin, Kirill	Chemistry	Sponsor: American Chemical Society (ACS)
Public Service Fellowship with Charlotte Chamber of Commerce	\$23,140	Principal Investigator (PI): Barth, Thomas	Political Science and Public Administration	Sponsor: City of Charlotte Chamber of Commerce
R15 AREA project to Develop Genomic and Experimental Resources to Study Regeneration	\$461,250	Principal Investigator (PI): Janies, Daniel Co-PI: Reid, Robert	Bioinformatics and Genomics	Sponsor: National Institutes of Health (NIH) National Institute of General Medical Sciences (NIGMS)
Reducing chemical wear of single crystal diamond tools cutting alloys	\$10,888	Principal Investigator (PI): Evans, Christopher	Mechanical Engineering and Engineering Science	Sponsor: National Science Foundation (NSF)

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Role of DAI in viral CNS infection: A pilot study	\$7,550	Principal Investigator (PI): Marriott, Ian Co-PI: Johnson, Morgan	Biological Sciences	Sponsor: National Institutes of Health (NIH)
Sampling Criteria for Monitoring Influenza Emergencies Under Constrained Testing Capabilities	\$24,500	Principal Investigator (PI): Paul, Rajib	Public Health Sciences	Sponsor: Western Michigan University Prime Sponsor: National Science Foundation (NSF)
SOW22: Hardware Secure Communications for Power Converters interfacing Renewable Energy Resources	\$160,622	Principal Investigator (PI): Manjrekar, Madhav Co-PIs: Saqib, Fareena; Essakiappan, Somasundaram	Electrical and Computer Engineering	Sponsor: Duke Energy Corporation
SpecEES: Intelligent Energy Efficient Spectrum Access for Wireless IoT	\$16,000	Principal Investigator (PI): Xie, Jiang Co-PIs: Han, Tao; Weldon, Thomas	Electrical and Computer Engineering	Sponsor: National Science Foundation (NSF)
Statistical Methods in HIV Vaccine Efficacy Trials	\$94,287	Principal Investigator (PI): Sun, Yanqing	Mathematics and Statistics	Sponsor: Fred Hutchinson Cancer Research Center Prime Sponsor: National Institutes of Health (NIH) National Institute of Allergy and Infectious Diseases (NIAID)
Structured Diamond Optical Surfaces	\$94,976	Principal Investigator (PI): Suleski, Thomas	Physics and Optical Science	Sponsor: II-VI Foundation
Support for Development of an AIERCI Tool to Ensure Uninterrupted Energy Flow from Cyber Attacks Targeting Essential Forecasting Data for Grid Operations	\$59,942	Principal Investigator (PI): Hong, Tao	Systems Engineering and Engineering Management	Sponsor: Department of Energy (DOE) Brookhaven National Laboratory Prime Sponsor: Department of Energy (DOE)
The Civic Eats Workshop: Helping Create More Informed Citizens Through Foodways	\$1,000	Principal Investigator (PI): Stokes, Ashli	Communication Studies	Sponsor: North Carolina Humanities Council

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The Vaginal Microbiome and Racial Disparity in Preterm Delivery	\$140,795	Principal Investigator (PI): Fodor, Anthony	Bioinformatics Research Center	Sponsor: University of North Carolina at Chapel Hill (UNC-CH) Prime Sponsor: National Institutes of Health (NIH)
Visual Analytics on the spread of Pathogens	\$73,711	Principal Investigator (PI): Janies, Daniel	Bioinformatics and Genomics	Sponsor: Ohio State University College of Medicine Prime Sponsor: Department of Defense (DOD) Defense Threat Reduction Agency (DTRA)
Vocal Accommodation Within Nonverbal Frequencies as a Marker of Status, Dominance, and Prestige	\$50,000	Principal Investigator (PI): Dippong, Joseph	Sociology	Sponsor: Department of Defense (DOD) Department of the Army (DA) Army Research Office (ARO)