

April 26, 2017

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

Total amount awarded for the month of March was \$2,026,987

Fiscal Year To Date Total: \$35,189,779

Award Title	Amount	Investigators	PI Dept.	Sponsors
6th European Set Theory Conference	\$24,000	Principal Investigator (PI): Dow, Alan	Mathematics and Statistics	Sponsor: National Science Foundation (NSF)
A Multitude of Voices: The Danger of a Single Story The Memorial Library/Olga Lengyel Institute Summer Satellite Holocaust Teacher Education	\$6,000	Principal Investigator (PI): Wertz-Orbaugh, Tonya	University Writing Programs	Sponsor: Olga Lengyel Institute Memorial Library
Acquisition of Multi-functional Nanoprobe Station-based Measurement System for Comprehensive in situ Materials Characterization and Measurement in SEM	\$6,000	Principal Investigator (PI): Zhang, HaiTao	Mechanical Engineering and Engineering Science	Sponsor: Department of Defense (DOD)
Area Acoustic and Electromagnetic Emissions Monitoring - Phase 2	\$40,615	Principal Investigator (PI): Browne, Aidan Co-PI: Cox, Robert	Engineering Technology and Construction Management	Sponsor: Electric Power Research Institute (EPRI)
Blue Skies Manufacturing Workshop	\$48,029	Principal Investigator (PI): Smith, Kevin	Mechanical Engineering and Engineering Science	Sponsor: National Science Foundation (NSF)
Collaborative Research: Judicial Diversity and Appellate Decision Making	\$76,659	Principal Investigator (PI): Szmer, John	Political Science and Public Administration	Sponsor: National Science Foundation (NSF)
Collimated beam and water quality testing to be used in UV system evaluation at Mallard Creek wastewater treatment plant	\$44,686	Principal Investigator (PI): Keen, Olya	Civil and Environmental Engineering	Sponsor: City of Charlotte
Democratizing the Model-based Domain from Design to Verification: Automatic Generation of Optimized CMM Programs on the DMC	\$27,883	Principal Investigator (PI): Morse, Edward	Mechanical Engineering and Engineering Science	Sponsor: Metrosage, LLC Prime Sponsor: Digital Manufacturing and Design Innovation Institute (DMDII)

Award Title	Amount	Investigators	PI Dept.	Sponsors
Evaluation & Technical Assistance Partnership for The Duke Endowment Oral Health Grant Portfolio	\$15,000	Principal Investigator (PI): Piper, Crystal	Public Health Sciences	Sponsor: Medical University of South Carolina (MUSC) Prime Sponsor: Duke Endowment
Exploring Student Perspectives and Crafting Best Practices for the University Professional Internship Program at UNC Charlotte	\$900	Principal Investigator (PI): Norander, Stephanie	Communication Studies	Sponsor: North Carolina Career Development Association (NCCDA)
Extended IR Mueller Matrix Measurement Capability.	\$155,006	Principal Investigator (PI): Aggarwal, Ishwar Co-PIs: Boreman, Glenn; Poutous, Menelaos	Physics and Optical Science	Sponsor: Department of Defense (DOD) Department of the Navy (DN) Office of Naval Research (ONR)
Globally convergent inverse algorithms via Carleman Weight Functions: theory, numerical studies and experimental verifications	\$206,070	Principal Investigator (PI): Klibanov, Michael Co-PIs: Liu, Hui; Nguyen, Loc; Aleksandr Kolesov	Mathematics and Statistics	Sponsor: Department of Defense (DOD) Department of the Army (DA) Army Research Laboratory (ARL)
Industrial membership fees for the NSF IUCRC Award - SIBS Industry Funds	\$25,000	Principal Investigator (PI): Cox, Robert	Electrical and Computer Engineering	Sponsor: All Other Business and Industry
Internal Curing of Concrete Using Lightweight Aggregate	\$20,011	Principal Investigator (PI): Cavalline, Tara Co-PI: Tempest, Brett	Engineering Technology and Construction Management	Sponsor: North Carolina Department of Transportation (NCDOT) Prime Sponsor: Federal Highway Administration (FHWA)
Materials Characterization Laboratory Services - Master Agreement with Technicon Acoustics	\$100	Principal Investigator (PI): Weaver, Katherine	Energy Production and Infrastructure Center	Sponsor: Technicon Acoustics, Inc.
Maximizing the Impact of ePHIM in Low-Income, Multiethnic Populations	\$14,390	Principal Investigator (PI): Latulipe, Celine	Software and Information Systems	Sponsor: Wake Forest University Health Sciences Prime Sponsor: Agency for Healthcare Research and Quality (AHRQ)
NCEMC Delivery Point Level Load and Weather Data Analysis	\$79,056	Principal Investigator (PI): Hong, Tao	Systems Engineering and Engineering Management	Sponsor: North Carolina Electric Membership Corporation (NCEMC)

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Regimes in Motion: Migration Administration in the Making of the Late Ottoman Empire	\$5,000	Principal Investigator (PI): Fratantuono, Ella	History	Sponsor: American Philosophical Society (APS)
Regulation of Hsp70-Mediated Cyclin D1 Destruction in Breast Cancer	\$440,338	Principal Investigator (PI): Truman, Andrew	Biological Sciences	Sponsor: National Institutes of Health (NIH)
Research Area 9.2: Microstructural and Mechanical Characterization of Lightweight Metals and Alloys with Coarse and Ultrafine-Grained Microstructures	\$45,000	Principal Investigator (PI): Wei, Qiuming	Mechanical Engineering and Engineering Science	Sponsor: Department of Defense (DOD) Department of the Army (DA) Army Research Office (ARO)
Research on Tire Camber Control for Over-the-Road Trucks	\$10,000	Principal Investigator (PI): Tkacik, Peter	Mechanical Engineering and Engineering Science	Sponsor: Michelin Americas Research Corporation (MARC)
REU Site: UNCC Crime Analytics - Research Experiences for Undergraduates	\$306,744	Principal Investigator (PI): Turner, Michael Co-PIs: Bjerregaard, Beth; Phillips, Matthew	Criminal Justice and Criminology	Sponsor: National Science Foundation (NSF)
Risk Factors for Microscopic Colitis	\$39,952	Principal Investigator (PI): Fodor, Anthony Co-PI: Winglee, Kathryn	Bioinformatics and Genomics	Sponsor: University of North Carolina at Chapel Hill (UNC-CH) Prime Sponsor: National Institutes of Health (NIH)
STEM Research and Engineering Apprenticeship	\$7,500	Principal Investigator (PI): Pugalee, David Co-PIs: Wickliff, Alisa; Walter, Michael	Center for STEM Education	Sponsor: Academy of Applied Science Prime Sponsor: Army Educational Outreach Program (AEOP)
Story-Call: E-mobile Support for Community Caregivers of Veterans with Dementia	\$17,600	Principal Investigator (PI): Davis, Boyd	English	Sponsor: Ralph H. Johnson Veterans Affairs Medical Center
Support for Development of an AIERCI Tool to Ensure Uninterrupted Energy Flow from Cyber Attacks Targeting Essential Forecasting Data for Grid Operations	\$59,971	Principal Investigator (PI): Hong, Tao	Systems Engineering and Engineering Management	Sponsor: Department of Energy (DOE) Brookhaven National Laboratory Prime Sponsor: Department of Energy (DOE)

Award Title	Amount	Investigators	PI Dept.	Sponsors
Tailoring Mg-alloy System through Composition/Microstructure/Severe Plastic Deformation for Army Extreme Dynamic Environment Applications	\$53,500	Principal Investigator (PI): Wei, Qiuming	Mechanical Engineering and Engineering Science	Sponsor: Johns Hopkins University Prime Sponsor: Department of Defense (DOD) Department of the Army (DA) Army Corps of Engineers
The Myogenic Switch of Notch and mTOR	\$955	Principal Investigator (PI): Arthur, Susan	Kinesiology	Sponsor: Sigma Xi, The Scientific Research Society
Turner AFB Groundwater Model	\$10,125	Principal Investigator (PI): Langley, William Co-PI: Daniels, John	Civil and Environmental Engineering	Sponsor: Zapata, Inc. Prime Sponsor: Department of Defense (DOD) Department of the Army (DA) Army Research Office (ARO)
Visual Analytics on the spread of Pathogens	\$191,945	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	\$25,000	Principal Investigator (PI): Dippong, Joseph	Sociology	Sponsor: Department of Defense(DOD) Department of the Army (DA) Army Research Office (ARO)
Workshop: 2017 NSF Proposal Writing Workshop	\$23,952	Principal Investigator (PI): Schmitz, Tony	Mechanical Engineering and Engineering Science	Sponsor: National Science Foundation (NSF)