February 18, 2019

The Office of Research and Economic Development is pleased to announce awards received by UNC Charlotte Researchers in the month of January, 2019.

Total amount awarded for the month of January was \$2,424,149

Fiscal Year To Date Total: \$30,334,384

Award Title	Amount	Investigators	PI Dept.	Sponsors
2018-2019 Aspire and Senior Day	\$4,752	Principal Investigator (PI): Brown, Regena	Academic Diversity & Inclusion	Sponsor: University of North Carolina System Office(UNC SysOff) Prime Sponsor: US Department of Education (DOED)
2018-2019 NCSIP IHE Partnership	\$10,000	Principal Investigator (PI): Sacco, Donna	Special Education and Child Development	Sponsor: North Carolina State Board of Education Prime Sponsor: US Department of Education (DOED)
2018-2019 UNC Charlotte Collegiate Recovery Community (CRC) Project	\$105,000	Principal Investigator (PI): Dooley, Beau	Center for Wellness Promotion	Sponsor: University of North Carolina General Administration (UNC GA) Prime Sponsor: NCDHHS Division of Mental Health, Developmental Disabilities and Substance Abuse Services (MHDDSAS)
CAREER: A multiscale framework for crystalline defects in 2-dimensional materials	\$64,147	Principal Investigator (PI): Li, Xingjie	Mathematics and Statistics	Sponsor: National Science Foundation (NSF)
CAREER: Stochastic forward and inverse problems involving dynamical systems	\$71,342	Principal Investigator (PI): McGoff, Kevin	Mathematics and Statistics	Sponsor: National Science Foundation (NSF)
Coaching, Mentoring, Performance Evaluation and Professional Development for BK Licensed Teachers Employed in Mecklenburg County Universal Pre-K Class	\$250,939	Principal Investigator (PI): Lambert, Richard	Educational Leadership	Sponsor: Mecklenburg County Smart Start Partnership for Children

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Community-based participatory research to better understand the role of food insecurity in childhood overweight	\$25,000	Principal Investigator (PI): Racine, Elizabeth	Public Health Sciences	Sponsor: Carolinas HealthCare System NorthEast Prime Sponsor: Duke Endowment
Coordinated Control and Stability Analysis of Multi-Port Series-Stacked PV-Battery Converter Architecture	\$80,002	Principal Investigator (PI): Cox, Robert	Electrical and Computer Engineering	Sponsor: DOE Oak Ridge National Laboratories
Determination of electrical and geometrical characteristics of mine-like and IED-like targets using new globally convergent inverse algorithms	\$61,626	Principal Investigator (PI): Klibanov, MIkhail Co-PI: Astratov, Vasily	Mathematics and Statistics	Sponsor: DOD DA Army Research Office (ARO)
Dynamic Illumination Optics	\$52,190	Principal Investigator (PI): Suleski, Thomas Co-PI: Davies, Matthew	Physics and Optical Science	Sponsor: University of Rochester
Engagement of monocytes mitigates neuronal damage in Alzheimer's disease model	\$54,756	Principal Investigator (PI): Cho, Hansang	Mechanical Engineering and Engineering Science	Sponsor: American Association of Immunologists
Engaging Military Veterans to Increase Engineering Enrollment and B/S, M/S, and PhD Degrees Awarded	\$250,000	Principal Investigator (PI): Tkacik, Peter Co-PIs: Lim, Jae Hoon; Tarbutton, Joshua; Goudarzi, Navid; Keanini, Russell	Mechanical Engineering and Engineering Science	Sponsor: DOD DN Office of Naval Research (ONR)
Gaston County Public Service Fellowship	\$11,093	Principal Investigator (PI): Barth, Thomas	Political Science and Public Administration	Sponsor: Gaston County
In-Situ Metrology with 3D- Display Deflectometry	\$63,244	Principal Investigator (PI): Falaggis, Konstantinos Co-PIs: Owen, Joseph; Davies, Matthew; Porras-Aguilar, Rosario	Mechanical Engineering and Engineering Science	Sponsor: University of Rochester Prime Sponsor: National Science Foundation (NSF)

Award Title	Amount	Investigators	PI Dept.	Sponsors
La CompañÃ-a de Terrenos y Aguas de la Baja California, S. A.: An Environmental Enterprise Shaping the Lower Colorado River Region, 1900-1962	\$2,000	Principal Investigator (PI): Andres, Benny	History	Sponsor: UCLA Charles E. Young Research Library
Mechanism of APE1 in DNA damage response	\$331,382	Principal Investigator (PI): Yan, Shan	Biological Sciences	Sponsor: National Institutes of Health (NIH)
Mechanisms that Predict Weight Trajectory after Bariatric Surgery: The Interactive Roles of Behavior and Biology	\$12,843	Principal Investigator (PI): Fodor, Anthony	Bioinformatics and Genomics	Sponsor: University of North Carolina at Chapel Hill (UNC-CH) Prime Sponsor: NIH National Institute of Diabetes, Digestive, and Kidney Diseases (NIDDKD)
Near-Roadway and Ambient Air Pollution Exposure and the Gut Microbiome: Implications for Obesity and Insulin Resistance in Adolescence	\$4,379	Principal Investigator (PI): Fodor, Anthony	Bioinformatics and Genomics	Sponsor: University of Colorado Boulder Prime Sponsor: National Institutes of Health (NIH)
Non-contact dimensional inspection - Phase 3	\$161,624	Principal Investigator (PI): Morse, Edward	Mechanical Engineering and Engineering Science	Sponsor: Honeywell, Inc.
NSF-BSF: Quantifying climate- dependent mechanical weathering and subcritical cracking over geological time	\$98,593	Principal Investigator (PI): Eppes, Martha Co-PI: Keanini, Russell	Geography and Earth Sciences	Sponsor: National Science Foundation (NSF)
Operating FLEX engines on other than ULS fuel	\$275,375	Principal Investigator (PI): Uddin, Mesbah	Mechanical Engineering and Engineering Science	Sponsor: Electric Power Research Institute (EPRI)
Radical food geographies: Connecting knowledges, cultivating practices, (re)imagining governance	\$4,000	Principal Investigator (PI): Hammelman, Colleen	Geography and Earth Sciences	Sponsor: Institute for Human Geography, Inc.

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Reconfigurable CGH using SLM	\$10,901	Principal Investigator (PI): Porras-Aguilar, Rosario	Physics and Optical Science	Sponsor: University of Rochester
Regional EC Education Consultant and State Performance Plan Consultant	\$40,152	Principal Investigator (PI): Anderson, Kelly	Special Education and Child Development	Sponsor: North Carolina Department of Public Instruction (NCDPI) Prime Sponsor: US Department of Education (DOED)
SBIR: Using game mechanics to improve outcomes among stem cell transplant survivors	\$15,980	Principal Investigator (PI): Zhang, Dongsong	Business Info Systems/Oper	Sponsor: Radiant Creative Group, LLC Prime Sponsor: National Institutes of Health (NIH)
Science, Women, and the Mother Tongue: Translating Knowledge for Young Readers	\$1,000	Principal Investigator (PI): Rauch, Alan	English	Sponsor: Indiana University Lilly Library
Shared Administrative Support Funding for NSF IUCRC Phase II Center for Metamaterials	\$86,402	Principal Investigator (PI): Aggarwal, Ishwar	Physics and Optical Science	Sponsor: Clarkson University Prime Sponsor: National Science Foundation (NSF)
Shelter Employee Engagement and Development Survey (SEEDS) support	\$16,500	Principal Investigator (PI): Rogelberg, Steven	Psychological Science	Sponsor: Petsmart Charities, Inc.
State Systemic Improve Plan (SIP) Evaluation	\$75,931	Principal Investigator (PI): Anderson, Kelly	Special Education and Child Development	Sponsor: North Carolina Department of Public Instruction (NCDPI) Prime Sponsor: US Department of Education (DOED)
Support of the graduate student working on P2EP knowledgebase and continuity project.	\$7,932	Principal Investigator (PI): Brouwer, Cory	Bioinformatics and Genomics	Sponsor: North Carolina State University (NCSU) Prime Sponsor: NCSU NCSU Plant Pathways Elucidation Project Consortium (P2EP)

Award Title	Amount	Investigators	PI Dept.	Sponsors
Translating Evidence to Support Transitions: Improving Outcomes of Youth in Transition with Psychiatric Disabilities by Use and Adoption of Best Practice Transition Planning	\$20,000	Principal Investigator (PI): Test, David	Special Education and Child Development	Sponsor: University of Massachusetts Medical School Prime Sponsor: Department of Health and Human Services (DHHS)
Treatment of algal toxins in drinking water with UV/Cl2 and UV/H2O2 advanced oxidation: toxicity of transformation products and effect on disinfection byproduct formation	\$60,000	Principal Investigator (PI): Keen, Olya	Civil and Environmental Engineering	Sponsor: NCSU Water Resources Research Institute (WRRI)
Wetland and Stream Predictive Model Improvements	\$95,064	Principal Investigator (PI): Wang, Sheng-Guo	Engineering Technology and Construction Management	Sponsor: North Carolina Department of Transportation (NCDOT)