

March 23, 2020

The Office of Research and Economic Development is pleased to announce awards received by UNC Charlotte Researchers in the month of February, 2020.

Total amount awarded for the month of February was \$1,924,348

Fiscal Year To Date Total: \$35,711,436

Award Title	Amount	Investigators	PI Dept.	Sponsors
2019-2020 UNC Charlotte Collegiate Recovery Community (CRC) Project	\$90,000	Principal Investigator (PI): Dooley, Beau	Center for Wellness Promotion	Sponsor: University of North Carolina System Office (UNC SysOff) Prime Sponsor: Substance Abuse and Mental Health Services Administration (SAMHSA)
An Interactive Technology Enhanced Coaching Intervention for Black Women with Hypertension	\$148,666	Principal Investigator (PI): Abel, Willie	School of Nursing	Sponsor: National Institutes of Health (NIH)
Carolina Trombone Project: Recording New Trombone Ensemble Repertoire	\$1,500	Principal Investigator (PI): Marks, Jeremy	Music	Sponsor: Arts and Science Council (ASC)
Coordinated Control and Stability Analysis of Multi-Port Series-Stacked PV-Battery Converter Architecture	\$65,116	Principal Investigator (PI): Cox, Robert	Energy Production and Infrastructure Center	Sponsor: Department of Energy (DOE) Oak Ridge National Laboratories
Correlative study of defects in Semiconductors	\$35,116	Principal Investigator (PI): Zhang, Yong	Electrical and Computer Engineering	Sponsor: DOD Department of Army (DA) Army Research Office (ARO)
Healthy Wells	\$40,406	Principal Investigator (PI): Delmelle, Eric	Geography and Earth Sciences	Sponsor: Gaston County Health Department Prime Sponsor: Centers for Disease Control and Prevention (CDC)

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High-Speed Machining & Metrology for Freeform Lens Arrays & Multi-Sided Freeforms	\$35,516	Principal Investigator (PI): Davies, Matthew Co-PI: Suleski, Thomas	Mechanical Engineering and Engineering Science	Sponsor: University of Rochester Prime Sponsor: National Science Foundation (NSF)
Human Health Exposure Analysis Resource (HHEAR): Untargeted Exposure Analysis Laboratories	\$354,291	Principal Investigator (PI): Du, Xiuxia	Bioinformatics and Genomics	Sponsor: Research Triangle Institute (RTI) International Prime Sponsor: National Institutes of Health (NIH)
Implementing Best Practice Care for Sepsis Survivors to Reduce Morbidity and Mortality	\$36,165	Principal Investigator (PI): Dulin, Michael	Deans Office College of Health and Human Services	Sponsor: Carolina Healthcare System Prime Sponsor: National Institutes of Health (NIH)
Indian Dance and American Communities: Expanding Forms and Audiences	\$10,000	Principal Investigator (PI): Sarkar, Kaustavi	Department of Dance	Sponsor: National Endowment for the Arts (NEA)
In-Situ Metrology with 3D-Display Deflectometry	\$59,236	Principal Investigator (PI): Falaggis, Konstantinos Co-PIs: Davies, Matthew; Porras-Aguilar, Rosario;	Mechanical Engineering and Engineering Science	Sponsor: University of Rochester Prime Sponsor: National Science Foundation (NSF)
Interpersonal Skills: Clarifying a Proliferated Construct Space and Proposing a Theoretical Framework	\$75,000	Principal Investigator (PI): Heggestad, Eric Co-PI: Banks, George	Psychological Science	Sponsor: DOD Department of Army (DA) Army Research Institute (ARI)
Marshall Research Phase V	\$137,477	Principal Investigator (PI): Kamalasadan, Sukumar	Electrical and Computer Engineering	Sponsor: Duke Energy Corporation

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Neurotropic Viral Infection in CNS Aging and Alzheimer's Disease	\$248,641	Principal Investigator (PI): Funk, Kristen	Biological Sciences	Sponsor: National Institutes of Health (NIH)
Optimizing Long-term Human Performance in Future Work	\$12,516	Principal Investigator (PI): Heggestad, Eric	Psychological Science	Sponsor: Colorado State University Prime Sponsor: National Science Foundation (NSF)
Pharmacoengineering Approaches to Enhance the Immune Response to Neoantigens	\$80,667	Principal Investigator (PI): Vivero-Escoto, Juan	Chemistry	Sponsor: University of North Carolina System Office (UNC SysOff)
Reconfigurable CGH Using SLM	\$22,473	Principal Investigator (PI): Porras-Aguilar, Rosario	Physics and Optical Science	Sponsor: University of Rochester Prime Sponsor: National Science Foundation (NSF)
Regenerative Media Filter Testing For Removing Crypto-Sized Particles in Aquatic Venues	\$100,000	Principal Investigator (PI): Amburgey, James	Civil and Environmental Engineering	Sponsor: Evoqua Water Technologies, LLC
Senior Design Program Fee Funding for Small Business	\$30,000	Principal Investigator (PI): Hartman, James	Student Development and Success	Sponsor: North Carolina State University (NCSU) Prime Sponsor: Department of Commerce (DOC) National Institute of Standards and Technology (NIST)
SHIP at Hampton Creste Program Evaluation	\$5,000	Principal Investigator (PI): Hatcher, Schnavia Co-PI: Crocker, Tianca	School of Social Work	Sponsor: The Salvation Army, Greater Charlotte Area

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Strategic Partnerships & Planning to Support Ending the HIV Epidemic in the U.S.	\$137,714	Principal Investigator (PI): Dulin, Michael	Deans Office College of Health and Human Services	Sponsor: Mecklenburg County Health Department Prime Sponsor: Centers for Disease Control and Prevention (CDC)
Support for Development of an AIERCI Tool to Ensure Uninterrupted Energy Flow From Cyber Attacks Targeting Essential Forecasting Data for Grid Operations	\$59,870	Principal Investigator (PI): Hong, Tao	Systems Engineering and Engineering Management	Sponsor: DOE Brookhaven National Laboratory Prime Sponsor: Department of Energy (DOE)
The Data Center	\$62,010	Principal Investigator (PI): Fowler, Catherine Co-PI: Klare, Matthew	Special Education and Child Development	Sponsor: Westat, Inc. Prime Sponsor: US Department of Education (DOED)
This World in a Teacup: Chinese-American Tea Trade in the Nineteenth Century	\$6,000	Principal Investigator (PI): Du, Dan	History	Sponsor: American Philosophical Society (APS)
Varifunction Freeform Optics	\$70,968	Principal Investigator (PI): Suleski, Thomas Co-PI: Davies, Matthew	Physics and Optical Science	Sponsor: University of Rochester