

June 13, 2019

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

Total amount awarded for the month of May was \$2,992,247

Fiscal Year To Date Total: \$44,025,790

Award Title	Amount	Investigators	PI Dept.	Sponsors
2019 Charlotte-Mecklenburg Annual Survey: YMCA	\$6,000	Principal Investigator (PI): Simmons, Laura	Urban Institute	Sponsor: YMCA of Charlotte
Active Cyber Deception Against Malware	\$250,000	Principal Investigator (PI): Al-Shaer, Ehab Co-PI: Wei, Jinpeng	Software and Information Systems	Sponsor: DOD DN Office of Naval Research (ONR)
Addressing Equity Gaps in STEM: USU Student Experience Project	\$250,000	Principal Investigator (PI): Smail, John Co-PI: Maher, Mary	Undergraduate Education	Sponsor: Association of Public and Land-Grant Universities (APLU)
Application of the Digital Twin Model for Repair Processes - Phase 1	\$60,000	Principal Investigator (PI): Tarbutton, Joshua Co-PI: Morse, Edward	Mechanical Engineering and Engineering Science	Sponsor: Siemens Corporate Technology
CERDEC Energy Management System Technical Support	\$29,717	Principal Investigator (PI): Mazzola, Michael Co-PI: Gafford, James	Energy Production and Infrastructure Center	Sponsor: Hyperion Technology Group, Inc Prime Sponsor: CACI Technologies, Inc.
Collaborative Research: Landscape Evolution in the McMurdo Dry Valleys: Erosion Rates and Real-Time Monitoring of Rock Breakdown in a Hyperarid, Subzero Environment	\$14,987	Principal Investigator (PI): Eppes, Martha	Geography and Earth Sciences	Sponsor: National Science Foundation (NSF)
Correlative Study of Effects in Semiconductors	\$80,000	Principal Investigator (PI): Zhang, Yong	Electrical and Computer Engineering	Sponsor: DOD DA Army Research Office (ARO)

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Determination of Electrical and Geometrical Characteristics of Mine-Like and IED-Like Targets Using New Globally Convergent Inverse Algorithms	\$70,000	Principal Investigator (PI): Klibanov, Mikhail Co-PI: Astratov, Vasily	Mathematics and Statistics	Sponsor: DOD DA Army Research Office (ARO)
Effective Characterizations of Recycled Concrete Aggregate (RCA) for Concrete Applications	\$20,000	Principal Investigator (PI): Cavalline, Tara	Engineering Technology and Construction Management	Sponsor: University of Nebraska at Lincoln Prime Sponsor: American Concrete Institute (ACI)
Graduate Assistantship with Global Alliance for Behavioral Health and Social Justice	\$27,838	Principal Investigator (PI): Kilmer, Ryan Co-PI: Gil-Rivas, Virginia	Psychological Science	Sponsor: American Orthopsychiatric Association (AOA)
Graduate Assistantships with Teen Health Connection	\$29,708	Principal Investigator (PI): Peterman, Amy	Psychological Science	Sponsor: Teen Health Connection
HRSA Scholarships for Disadvantaged Students - Behavioral Health Scholars Program	\$584,893	Principal Investigator (PI): Hatcher, Schnavia	School of Social Work	Sponsor: Health Resources and Services Administration (HRSA)
Leveraging multi-omics approaches to examine metabolic challenges of obesity in relation to cardiovascular disease	\$211,776	Principal Investigator (PI): Sha, Wei Co-PI: Du, Xiuxia	Bioinformatics and Genomics	Sponsor: University of North Carolina at Chapel Hill (UNC-CH) Prime Sponsor: National Institutes of Health (NIH)
Liberal Religion and Race in America	\$6,000	Principal Investigator (PI): Cameron, Christopher	History	Sponsor: American Philosophical Society (APS)
Maximizing the Impact of ePHIM in Low-Income, Multiethnic Populations	\$6,639	Principal Investigator (PI): Latulipe, Celine	Software and Information Systems	Sponsor: Wake Forest University Health Sciences Prime Sponsor: Agency for Healthcare Research and Quality (AHRQ)

Award Title	Amount	Investigators	PI Dept.	Sponsors
PANACEA: Personalized AutoNomous Agents Countering Social Engineering Attacks	\$175,223	Principal Investigator (PI): Shaikh, Samira Co-PI: Al-Shaer, Ehab	Computer Science	Sponsor: SUNY Research Foundation Prime Sponsor: DOD Defense Advanced Research Projects Agency (DARPA)
Rational Oncolytic Virotherapy For Pancreatic Cancer Using VSV	\$440,220	Principal Investigator (PI): Grzelishvili, Valery	Biological Sciences	Sponsor: National Institutes of Health (NIH)
Retooling Veterans with Service- and Combat-Connected Disabilities in Advanced Virtual Engineering	\$500,000	Principal Investigator (PI): Uddin, Mesbah Co-PIs: Cherukuri, Harischandra; Dahlberg, Jerry	Mechanical Engineering and Engineering Science	Sponsor: DOD DN Office of Naval Research (ONR)
REU Site: Examining the Intersection of Food, Housing and Healthcare in the Beatties Ford Road Corridor, Charlotte, NC	\$31,560	Principal Investigator (PI): Peterson, Nicole	Anthropology	Sponsor: Davidson College Prime Sponsor: National Science Foundation (NSF)
Structured Diamond Optical Surfaces (Year 2)	\$80,908	Principal Investigator (PI): Suleski, Thomas Co-PI: Davies, Matthew	Physics and Optical Science	Sponsor: II-VI Foundation
Tailoring Mg-alloy System through Composition/Microstructure/Severe Plastic Deformation for Army Extreme Dynamic Environment Applications	\$16,778	Principal Investigator (PI): Wei, Qiuming	Mechanical Engineering and Engineering Science	Sponsor: Johns Hopkins University Prime Sponsor: DOD DA Army Research Laboratory (ARL)
Transformer Voltage Regulation	\$50,000	Principal Investigator (PI): Zhao, Tiefu	Electrical and Computer Engineering	Sponsor: Eaton Corporation
Vocal Accommodation Within Nonverbal Frequencies as a Marker of Status, Dominance, and Prestige	\$50,000	Principal Investigator (PI): Dippong, Joseph	Sociology	Sponsor: DOD DA Army Research Office (ARO)