

November 21, 2017

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

Total amount awarded for the month of October was \$4,151,149

Fiscal Year To Date Total: \$17,854,762

Award Title	Amount	Investigators	PI Dept.	Sponsors
2018 NC Junior Science and Humanities Symposium Competition	\$21,000	Principal Investigator (PI): Wickliff, Alisa Co-PI: Pugalee, David	Center for STEM Education	Sponsor: Academy of Applied Sciences Prime Sponsor: Army Research Laboratory (ARL)
Acquisition of a Multifunctional PicoIndenter System for in situ Correlative Materials Characterization of Small-Scaled Structures	\$566,995	Principal Investigator (PI): Xu, Ting Co-PIs: Zhang, HaiTao; Poler, Jordan; Walter, Michael; Wei, Qiuming; Her, Tsing-Hua; Zhang, Yong	Mechanical Engineering and Engineering Science	Sponsor: Department of Defense (DOD)
Artist Fellowship	\$10,000	Principal Investigator (PI): Chancellor, Bryn	English	Sponsor: North Carolina Arts Council
CHEM101 at the North Carolina Research Campus	\$3,000	Principal Investigator (PI): Brouwer, Cory	Bioinformatics and Genomics	Sponsor: North Carolina Biotechnology Center (NCBC)
CHS CORE Spatial Health	\$10,000	Principal Investigator (PI): Zager, Kathryn	Urban Institute	Sponsor: Carolinas HealthCare System
Collaborative Research: Telomerase Regulation in Deep Branching Eukaryotes	\$395,091	Principal Investigator (PI): Chakrabarti, Kausik Co-PI: Dey, Abhishek	Biological Sciences	Sponsor: National Science Foundation (NSF)
GEAR UP Aspire Day	\$4,752	Principal Investigator (PI): Douglas Turner, Jodi Co-PIs: Gray, Cynthia; Simmons, William	Multicultural Academic Services	Sponsor: University of North Carolina General Administration (UNC GA) Prime Sponsor: US Department of Education (DOED)

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Hands-on Learning Experiences for Cyber Threat Hunting Education	\$282,635	Principal Investigator (PI): Wei, Jinpeng Co-PIs: Chu, Bei-Tseng; Al-Shaer, Ehab; Shehab, Mohamed	Software and Information Systems	Sponsor: DOD National Security Agency (NSA)
How WIC Authorization influences Sales of Healthy Food and Beverages in Discount Variety Stores	\$250,000	Principal Investigator (PI): Racine, Elizabeth Co-PI: Zadrozny, Wlodek	Public Health Sciences	Sponsor: Robert Wood Johnson Foundation (RWJF)
Intensive Needs Teachers and Counselor Training Project	\$242,585	Principal Investigator (PI): Anderson, Kelly Co-PIs: Collins, Belva; Wood, Charles; Merlin, Clare; Foxx, Sejal	Special Education and Child Development	Sponsor: US Department of Education (DOED)
Lung Diseases among Coal Miners	\$60,398	Principal Investigator (PI): Arif, Ahmed Co-PI: Blanchette, Christopher	Public Health Sciences	Sponsor: University of Kentucky (UK) Prime Sponsor: Department of Health and Human Services (DHHS) Health Resources and Services Administration (HRSA)
MSF Errors: Effects and Specifications for Freeform Optics	\$1,500	Principal Investigator (PI): Suleski, Thomas	Physics and Optical Science	Sponsor: University of Rochester Prime Sponsor: National Science Foundation (NSF)
Partnership for the sustainable enhancement of novel materials for renewable electrical energy storage	\$50,000	Principal Investigator (PI): Poler, Jordan	Chemistry	Sponsor: CRDF Global
Performance Based Design Recommendations for Precast Concrete Connections in Fire	\$35,000	Principal Investigator (PI): Braxtan, Nicole Co-PIs: Zhou, Aixi; Tempest, Brett	Civil and Environmental Engineering	Sponsor: Precast/Prestressed Concrete Institute
Phase II CfM Industry Membership Funds	\$20,000	Principal Investigator (PI): Aggarwal, Ishwar	Physics and Optical Science	Sponsor: All Other Business and Industry

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Protein Markers to Islet Autoimmunity and Type 1 Diabetes Progression	\$25,993	Principal Investigator (PI): Sha, Wei	Bioinformatics and Genomics	Sponsor: University of North Carolina at Greensboro (UNCG) Prime Sponsor: National Institutes of Health (NIH)
SBIR: Paper/nanotechnology-based bioanalytical system for rapid detection of pesticides in food and water	\$5,987	Principal Investigator (PI): Xu, Ting	Mechanical Engineering and Engineering Science	Sponsor: Nanodiagnostic Technology, LLC Prime Sponsor: US Department of Agriculture (USDA)
Six-Week English Language Certificate Program for High School English Teachers from Brazil	\$359,038	Principal Investigator (PI): Siracusa, Jessica Co-PIs: Ladenheim, Rachel; Landrum, Undra	Intercultural Outreach	Sponsor: Institute of International Education, Inc. (IIE)
Smart Management of Water Resources and Infrastructure with the Internet of Things	\$7,500	Principal Investigator (PI): Bowen, James	Civil and Environmental Engineering	Sponsor: University of North Carolina General Administration (UNC GA)
Speaker Series - Building Community: People + Places + Partners	\$12,500	Principal Investigator (PI): Newsom, Mary	Urban Institute	Sponsor: Charlotte Center City Partners Prime Sponsor: John S and James L Knight Foundation
Support for Maternal and Child Health Programs Year 1/3	\$156,500	Principal Investigator (PI): Dulin, Michael Co-PI: Schuch, Johanna	Deans Office College of Health and Human Services	Sponsor: Charlotte Mecklenburg County
Tailoring Mg-alloy System through Composition/Microstructure/Severe Plastic Deformation for Army Extreme Dynamic Environment Applications	\$30,290	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
Tier 1 (Improving Mobility) Advanced Multimodal Mobility Solutions and Education	\$1,416,900	Principal Investigator (PI): Fan, Wei Co-PIs: Weggel, David; Kane, Martin; Pando, Miguel; Wang, Yu	Civil and Environmental Engineering	Sponsor: US Department of Transportation (DOT)

Award Title	Amount	Investigators	PI Dept.	Sponsors
Transition to a Western Diet and cardiometabolic risk: Biomarkers derived from the microbiome.	\$112,416	Principal Investigator (PI): Fodor, Anthony Co-PI: Sha, Wei	Bioinformatics Research Center	Sponsor: University of North Carolina at Chapel Hill (UNC-CH) Prime Sponsor: National Institutes of Health (NIH)
UNCC - Envision Charlotte Partnership for Energy Savings	\$71,069	Principal Investigator (PI): Futrell, Benjamin Co-PI: Cox, Robert	School of Architecture	Sponsor: Envision Charlotte Prime Sponsor: Department of Energy (DOE)