

May 27, 2016

The Office of Research and Economic Development is pleased to announce awards received by UNC Charlotte Researchers in the month of April, 2016.

Total amount awarded for the month of April was \$3,032,547

Fiscal Year To Date Total: \$33,074,464

Award Title	Amount	Investigators	PI Dept.	Sponsors
2015 -2016 Environmental Services for Mecklenburg County LUESA Solid Waste Division	\$47,850	Principal Investigator (PI): Guyer, Regina Co-PIs: Williamson-Coria, Karyn; Keen, Olya	Energy and Environmental Assistance Office	Sponsor: Mecklenburg County Land Use and Environmental Services Agency (LUESA)
3D and Conformal MetaOptics (COMET)	\$199,897	Principal Investigator (PI): Suleski, Thomas Co-PIs: Boreman, Glenn; Gbur, Gregory	Physics and Optical Science	Sponsor: Invincea Labs, LLC Prime Sponsor: Department of Defense (DOD) Defense Advanced Research Projects Agency (DARPA)
A Child's Place End of Year Annual Report Data Update 2016	\$1,500	Principal Investigator (PI): Gavarkavich, Diane Co-PI: Lane, Justin	Urban Institute	Sponsor: A Child's Place
A research opportunity index to measure biomedical research disparities across the disease landscape.	\$178,482	Principal Investigator (PI): Yao, Lixia Co-PI: Latulipe, Celine	Software and Information Systems	Sponsor: National Institutes of Health (NIH) National Library of Medicine
Adverse Childhood Circumstances and the Dynamics of Disability and Mortality throughout Adult Life	\$18,530	Principal Investigator (PI): Laditka, James	Public Health Sciences	Sponsor: University of Michigan Ann Arbor Prime Sponsor: National Institutes of Health (NIH) National Institute on Aging (NIA)
Arbitrary Profiling Review	\$21,270	Principal Investigator (PI): Kuhns, Joseph Co-PI: Reid, Shannon	Criminal Justice and Criminology	Sponsor: Charlotte-Mecklenburg Police Department

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Assessing the Fidelity of National Institute of Justice's (NIJ) Demonstration Field Experiment (DFE): Changing Attitudes and Motivation in Parolees (CHAMPS).	\$14,930	Principal Investigator (PI): Listwan, Shelley Co-PI: Hartman, Jennifer	Criminal Justice and Criminology	Sponsor: Manpower Demonstration Research Corporation (MDRC) Prime Sponsor: National Institute of Corrections
Cellular Pathways Affecting Oncolytic Virus-Host Interactions in Cancer	\$445,303	Principal Investigator (PI): Grzelishvili, Valery Co-PI: Cataldi, Marcela	Biological Sciences	Sponsor: National Institutes of Health (NIH)
Comparing the Impact of Organic vs. Inorganic Nitrogen Loading to the Neuse Estuary with a Mechanistic Eutrophication Model	\$44,999	Principal Investigator (PI): Bowen, James	Civil and Environmental Engineering	Sponsor: North Carolina State University (NCSSU) Water Resources Research Institute (WRRI)
Comparing the Impact of Organic vs. Inorganic Nitrogen Loading to the Neuse Estuary with a Mechanistic Eutrophication Model	\$9,199	Principal Investigator (PI): Bowen, James	Civil and Environmental Engineering	Sponsor: North Carolina State University (NCSSU) Water Resources Research Institute (WRRI) Prime Sponsor: United States Geological Survey (USGS)
Computational Model for Spacecraft/Habitat Volume	\$80,000	Principal Investigator (PI): Hsiang, Simon Co-PI: Lim, Churlzu	Systems Engineering and Engineering Management	Sponsor: National Aeronautics and Space Administration (NASA) Johnson Space Center
Confidential	\$42,520	Principal Investigator (PI): Fiddy, Michael	Physics and Optical Science	Sponsor: Confidential Prime Sponsor: Confidential
Confidential	\$163,017	Principal Investigator (PI): Kamalasadan, Sukumar Co-PI: Enslin, Johan	Electrical and Computer Engineering	Sponsor: Confidential Prime Sponsor: Confidential

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CRII: SaTC: A Language Based Approach to Hybrid Mobile App Security	\$174,999	Principal Investigator (PI): Sridhar, Meera	Software and Information Systems	Sponsor: National Science Foundation (NSF) Computer and Information Science and Engineering (CISE)
Discovery of human cardiac myosin regulatory sites, modulating cross-bridge kinetics in heart muscle	\$440,012	Principal Investigator (PI): Nesmelov, Yuri	Physics and Optical Science	Sponsor: National Institutes of Health (NIH) National Heart, Lung, and Blood Institute (NHLBI)
DoS English Language Specialist Award to Bahrain Summer 2016.	\$9,272	Principal Investigator (PI): Salas, Spencer	Middle, Secondary and K-12 Education	Sponsor: Georgetown University Prime Sponsor: Department of State (DOS)
Enhancing Muscle Glycogen Content to Rescue Skeletal Muscle Growth in Aged Rats.	\$5,000	Principal Investigator (PI): Gordon, Scott Co-PI: Lawrence, Marcus	Kinesiology	Sponsor: American College of Sports Medicine (ACSM)
First Phase of Development of a Low-Cost, Portable, and RapidNondestructive Inspection Tool for Wood Distribution Poles	\$17,567	Principal Investigator (PI): Whelan, Matthew Co-PI: Young, David	Civil and Environmental Engineering	Sponsor: Duke Energy Corporation
FY16 Quality-Mecklenburg Quality of Life Explorer	\$40,000	Principal Investigator (PI): Furuseh, Owen Co-PIs: Zager, Kathryn; Simmons, Laura	Metropolitan Studies and Extended Academic Programs	Sponsor: City of Charlotte
Gold Rush Grant	\$50,000	Principal Investigator (PI): McEntire, Tina	Enrollment Management	Sponsor: Association of Public and Land-grant Universities (APLU)
Investigation of the Interaction of Multiple Infrared Filters with Long Wavelength Infrared Spectra of Explosives and Interferents	\$210,000	Principal Investigator (PI): Aggarwal, Ishwar Co-PI: Poutous, Menelaos	Physics and Optical Science	Sponsor: Department of Defense (DOD) Department of the Navy (DN) Office of Naval Research (ONR)

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IUCRC for Metamaterials	\$42,138	Principal Investigator (PI): Fiddy, Michael	Physics and Optical Science	Sponsor: National Science Foundation (NSF)
Master IPF for a Master Services Agreement between the University of North Carolina at Charlotte and Magic Leap, Inc.	\$5,401	Principal Investigator (PI): Owen, Joseph Co-PI: Davies, Matthew	Mechanical Engineering and Engineering Science	Sponsor: Magic Leap Inc.
Materials Characterization Laboratory Services - Master Agreement with Performance Products, Inc.	\$300	Principal Investigator (PI): Weaver, Katherine	Mechanical Engineering and Engineering Science	Sponsor: PBI Performance Products, Inc.
Natural Resources and Armed Conflict	\$7,313	Principal Investigator (PI): Walsh, James	Political Science and Public Administration	Sponsor: Department of Defense (DOD)
Natural Resources and Armed Conflict	\$194,978	Principal Investigator (PI): Walsh, James Co-PI: Thill, Jean-Claude	Political Science and Public Administration	Sponsor: Department of Defense (DOD)
Peter Hutton: NY Portraits I, II, II at Storrs Gallery and Center City Film Screening	\$2,500	Principal Investigator (PI): Cammaroto, Crista Co-PIs: Davis, D.Christopher; Katsanos, Fotini	Deans Office College of Arts and Architecture	Sponsor: City of Charlotte Arts and Science Council
Phaseless inverse scattering problems for imaging of nano structures	\$56,797	Principal Investigator (PI): Klibanov, Michael Co-PI: Nguyen, Loc	Mathematics and Statistics	Sponsor: Department of Defense (DOD) Department of the Navy (DN) Office of Naval Research (ONR)
Salvation Army of Greater Charlotte: Rapid Rehousing Assessment Year 2	\$10,000	Principal Investigator (PI): Clark, Ashley Co-PI: Hawn Nelson, Amy	Urban Institute	Sponsor: The Salvation Army, Greater Charlotte Area

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Science of Security Label	\$91,027	Principal Investigator (PI): Al-Shaer, Ehab	Software and Information Systems	Sponsor: North Carolina State University (NCSU) Prime Sponsor: Department of Defense (DOD) National Security Agency (NSA)
Simultaneous Wind Shear Mapping and Altitude Optimization for Tethered Wind Energy Systems	\$5,000	Principal Investigator (PI): Vermillion, Christopher	Mechanical Engineering and Engineering Science	Sponsor: National Science Foundation (NSF)
Summer Internship 2016	\$20,669	Principal Investigator (PI): McAllister, George	Small Business Technology Development Center (SBTDC)	Sponsor: University of North Carolina General Administration (UNC GA) Prime Sponsor: North Carolina State University (NCSU)
Team approach to Sustainability through Education and Research	\$18,248	Principal Investigator (PI): Poler, Jordan	Chemistry	Sponsor: Eurasia Foundation Prime Sponsor: US Department of State (DOS)
Transition to a Western Diet and cardiometabolic risk: Biomarkers derived from the microbiome.	\$68,353	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)
Transitional Housing Industry Research	\$7,395	Principal Investigator (PI): Clark, Ashley Co-PI: Hawn Nelson, Amy	Urban Institute	Sponsor: The Lee Institute Prime Sponsor: Catherine's House
Understanding the complexity of the transcriptomes in E. coli K12	\$288,081	Principal Investigator (PI): Su, ZhengChang	Bioinformatics & Genomics	Sponsor: National Institutes of Health (NIH) National Institute of General Medical Sciences (NIGMS)