

June 30, 2016

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

Total amount awarded for the month of May was \$2,972,292

Fiscal Year To Date Total: \$36,046,756

Award Title	Amount	Investigators	PI Dept.	Sponsors
"Germans, Jews, and the Collapse of the Secular Future"	\$2,500	Principal Investigator (PI): Dalsheim, Joyce	Global, International and Area Studies	Sponsor: Cornell University Prime Sponsor: German Academic Exchange Service Deutscher Akademischer Austausch Dienst
3D Printed Lightweight Optics for Directed Energy Applications	\$300,000	Principal Investigator (PI): Williams, Wesley Co-PI: Schmidt, Peter	Engineering Technology and Construction Management	Sponsor: Optimax Systems, Inc. Prime Sponsor: Department of Defense (DOD) Missile Defense Agency
ACS Project SEED 2016	\$10,000	Principal Investigator (PI): Schmedake, Thomas Co-PIs: Rabinovich, Daniel; Afonin, Kirill; Walter, Michael	Chemistry	Sponsor: American Chemical Society (ACS)
Ash Paste Study 2016	\$34,000	Principal Investigator (PI): Khire, Milind Co-PI: Daniels, John	Civil and Environmental Engineering	Sponsor: Southern Company
Asymptotic and Spectral Analysis of Applied Non-self-adjoint Problems	\$69,934	Principal Investigator (PI): Molchanov, Stanislav Co-PI: Vainberg, Boris	Mathematics and Statistics	Sponsor: National Science Foundation (NSF)
Beyond the genome: impact of microbial communities and epigenetic regulations for adaptation	\$116,667	Principal Investigator (PI): Reitzel, Adam	Biological Sciences	Sponsor: Human Frontier Science Program (HFSP)
Bioceramics 28 Conference	\$20,000	Principal Investigator (PI): El-Ghannam, Ahmed	Mechanical Engineering and Engineering Science	Sponsor: National Science Foundation (NSF)

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Chatter Matters: Our Children, Our Community and School Choice	\$16,000	Principal Investigator (PI): Hawn Nelson, Amy	Urban Institute	Sponsor: Foundation For The Carolinas (FFTC) Prime Sponsor: Reemprise Fund
Children's Defense Fund Freedom Schools Summer Program Evaluation 2016	\$10,500	Principal Investigator (PI): Gavarkavich, Diane Co-PIs: Lane, Justin; Szczepaniak, Zachary	Urban Institute	Sponsor: Freedom School Partners
Confidential	\$17,000	Principal Investigator (PI): Kamalasadan, Sukumar	Electrical and Computer Engineering	Sponsor: Confidential Prime Sponsor: Confidential
Correlative study of defects in semiconductors	\$150,000	Principal Investigator (PI): Zhang, Yong	Electrical and Computer Engineering	Sponsor: Department of Defense (DOD) Department of the Army (DA) Army Research Office (ARO)
Dance: To Support Tracing Modern Dance: A Reconstruction Residency for Paul Taylor's Lost Tracer	\$10,000	Principal Investigator (PI): Jones, Kim	Department of Dance	Sponsor: National Endowment for the Arts (NEA)
Evaluation Assistantship	\$20,710	Principal Investigator (PI): Cook, James Co-PI: Kilmer, Ryan	Psychology	Sponsor: Thompson Child and Family Focus
HIV Risk Behaviors among Women Parolees aged 45 and Older: A Secondary Data Analysis	\$14,472	Principal Investigator (PI): McCord, Laneshia	School of Social Work	Sponsor: Miriam Hospital Prime Sponsor: National Institutes of Health (NIH) National Institute on Drug Abuse (NIDA)
Industrial membership fees for a new I/UCRC - Configuration, Analytics and Automation.	\$250,000	Principal Investigator (PI): Al-Shaer, Ehab	Software & Info Systems	Sponsor: All Other Business and Industry
Industrial membership fees for the NSF IUCRC Award - SIBS Industry Funds	\$100,000	Principal Investigator (PI): Cox, Robert	Electrical and Computer Engineering	Sponsor: All Other Business and Industry

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Leveraging Industry Research to Educate a Future Electric Grid Workforce	\$180,601	Principal Investigator (PI): Chowdhury, Badrul Co-PIs: Parkhideh, Babak; Enslin, Johan; Noras, Maciej; Manjrekar, Madhav; Cox, Robert; Cecchi, Valentina; Salami, Zia	Electrical and Computer Engineering	Sponsor: Electric Power Research Institute (EPRI) Prime Sponsor: Department of Energy (DOE)
Lighter Shades of Blackness: Black Women in Cordoba, Argentina 1776-1853	\$6,000	Principal Investigator (PI): Edwards, Erika	History	Sponsor: American Association of University Women (AAUW)
Marshall Storage with Controller Phase 3	\$125,018	Principal Investigator (PI): Kamalasadan, Sukumar Co-PI: Enslin, Johan	Electrical and Computer Engineering	Sponsor: Duke Energy Corporation
MTTRF Equipment Loan Agreement - NMV5000	\$412,880	Principal Investigator (PI): Ziegert, John Co-PIs: Goch, Friedrich; Schmitz, Tony	Mechanical Engineering and Engineering Science	Sponsor: Machine Tool Technologies Research Foundation (MTTRF)
NCSIP IHE Partnership (2016)	\$10,000	Principal Investigator (PI): Flynn, Lindsay Co-PI: Beach, Kristen	Special Education and Child Development	Sponsor: North Carolina Department of Public Instruction (NCDPI) Prime Sponsor: US Department of Education (DOED)
Nuevolution Evaluation	\$7,000	Principal Investigator (PI): Harden, Susan Co-PI: Schuch, Johanna	Middle, Secondary and K-12 Education	Sponsor: Levine Museum of the New South
Nurse Anesthesia Traineeship, UNC Charlotte	\$31,895	Principal Investigator (PI): Chertok, Ilana	School of Nursing	Sponsor: Health Resources and Services Administration (HRSA)
PFI: AIR-TT: Video Collaboratory: A Platform for Active Viewing and Collaboration with Video Data	\$12,000	Principal Investigator (PI): Wilson, David	Software and Information Systems	Sponsor: National Science Foundation (NSF)

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Preliminary Structural and Foundation Assessment of the Historic Crusader Walls and Pillars at the St. Jerome Hall within the Armenian Section of the Church of the Nativity in Bethlehem	\$13,000	Principal Investigator (PI): Pando, Miguel Co-PI: Whelan, Matthew	Civil and Environmental Engineering	Sponsor: University of the Holy Land (UHL)
Project CENTER-Sealed Air	\$99,927	Principal Investigator (PI): Goolkasian, Paula Co-PIs: Maestas, Cherie; Faust, Mark; Levens, Sara	Psychology	Sponsor: Sealed Air Corporation
PTAC - DLA 2016-2017	\$74,721	Principal Investigator (PI): McAllister, George	Small Business Technology Development Center (SBTDC)	Sponsor: North Carolina Small Business Technology Development Council Prime Sponsor: Department of Defense (DOD) Defense Logistics Agency
Public Service Fellowship Arts and Science Council	\$11,042	Principal Investigator (PI): Leland, Suzanne	Political Science and Public Administration	Sponsor: City of Charlotte Arts and Science Council
Random dynamical systems and limit theorems for optimal tracking	\$225,000	Principal Investigator (PI): McGoff, Kevin	Mathematics and Statistics	Sponsor: National Science Foundation (NSF)
Renaissance West Oral History Project	\$2,000	Principal Investigator (PI): Coffey, Heather Co-PIs: Kissel, Brian; Urbanski, Cynthia; Lewis, Janaka	Middle, Secondary and K-12 Education	Sponsor: North Carolina Humanities Council
Set-theoretic methods and the study of compact spaces	\$60,006	Principal Investigator (PI): Dow, Alan	Mathematics and Statistics	Sponsor: National Science Foundation (NSF)
STEM Research and Engineering Apprenticeship	\$10,000	Principal Investigator (PI): Pugalee, David Co-PIs: Wickliff, Alisa; Walter, Michael	Center for STEM Education	Sponsor: Army Educational Outreach Program (AEOP) Prime Sponsor: Academy of Applied Science

Award Title	Amount	Investigators	PI Dept.	Sponsors
Structured Diamond Optics for High Power Lasers (year 2)	\$47,491	Principal Investigator (PI): Suleski, Thomas	Physics and Optical Science	Sponsor: II-VI Foundation
Substance P exacerbation of CNS inflammation	\$432,291	Principal Investigator (PI): Marriott, Ian Co-PI: Bost, Kenneth	Biology	Sponsor: National Institutes of Health (NIH)
Support for Development of an AIERCI Tool to Ensure Uninterrupted Energy Flow from Cyber Attacks Targeting Essential Forecasting Data for Grid Operations	\$59,637	Principal Investigator (PI): Hong, Tao	Systems Engineering and Engineering Management	Sponsor: Department of Energy (DOE) Brookhaven National Laboratory Prime Sponsor: Department of Energy (DOE)
TWC: Small: Collaborative: Discovering Software Vulnerabilities through Interactive Static Analysis	\$8,000	Principal Investigator (PI): Lipford, Heather Co-PI: Chu, Bei-Tseng	Software and Information Systems	Sponsor: National Science Foundation (NSF)
Workplace Violence and Bullying Training for Nursing Students	\$2,000	Principal Investigator (PI): Burfield, Allison	School of Nursing	Sponsor: University of Cincinnati Prime Sponsor: Centers for Disease Control and Prevention (CDC)