

August 26, 2013

The Office of Research and Economic Development is pleased to announce awards received by UNC Charlotte Researchers in the month of July, 2013.

Total amount awarded for the month of July was \$3,099,523

Fiscal Year To Date Total: \$3,099,523

Award Title	Amount	Investigators	Lead PI Dept.	Sponsors
Bridge Element Deterioration Models and Bridge User Costs	\$174,801	<b>Lead PI:</b> Cavalline, Tara <b>Co-PIs:</b> Tempest, Brett; Whelan, Matthew;	Engineering Technology and Construction Management	<b>Sponsor:</b> North Carolina Department of Transportation (NCDOT)
Collaborative Project: Carolina Cyber Defender Scholarship	\$770,940	<b>Lead PI:</b> Chu, Bei-Tseng <b>Co-PIs:</b> Al-Shaer, Ehab; Lipford, Heather; Shehab, Mohamed; Wang, Weichao; Wu, Xintao;	Software and Information Systems	<b>Sponsor:</b> National Science Foundation (NSF)
Collaborative Proposal: ABI Innovation: Rapid, Interactive, Visual Mining of Biological Motion	\$275,295	<b>Lead PI:</b> Shin, Min <b>Co-PIs:</b> Souvenir, Richard; Schneider, Stanley;	Computer Science	<b>Sponsor:</b> National Science Foundation (NSF)
Collaborative Research: Interacting Disturbances: leaf to landscape dynamics of emerging disease, fire, and drought California coastal forests	\$189,064	<b>Lead PI:</b> Meentemeyer, Ross	Geography and Earth Sciences	<b>Sponsor:</b> National Science Foundation (NSF)
Collaborative: I/UCRC: Center for free form optics	\$60,000	<b>Lead PI:</b> Davies, Angela <b>Co-PIs:</b> Evans, Christopher	Physics and Optical Science	<b>Sponsor:</b> National Science Foundation (NSF)
Continued Maintenance and Development of Software: Integrated Genome Browser and the Genoviz SDK, Visualization Software for Next-Generation Genomics	\$284,041	<b>Lead PI:</b> Loraine, Ann	Bioinformatics and Genomics	<b>Sponsor:</b> NIH National Center for Research Resources (NCRR)
Data-driven Methods for Identifying Emerging Topics and Trends	\$152,575	<b>Lead PI:</b> Tolone, William <b>Co-PIs:</b> Ribarsky, Martin; Dou, Wenwen; Wang, Xiaoyu;	Deans Office College of Computing and Informatics	<b>Sponsor:</b> University of North Carolina General Administration (UNC GA) <b>Prime Sponsor:</b> Army Research Office (ARO)

<b>Award Title</b>	<b>Amount</b>	<b>Investigators</b>	<b>Lead PI Dept.</b>	<b>Sponsors</b>
Design of High Performance Air Preheater Seals	\$50,246	<b>Lead PI:</b> Sarunac, Nenad <b>Co-PIs:</b> Cherukuri, Harischandra	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> Paragon Airheater Technologies
Development and Operation of a Web GIS-enabled Data Management System for the Santee Experimental Forest	\$16,000	<b>Lead PI:</b> Tang, Wenwu <b>Co-PIs:</b> Shoemaker, Douglas; Meentemeyer, Ross;	Geography and Earth Sciences	<b>Sponsor:</b> USDA
Finding the roots: interactive influences of individual, secondary school, and college institutional factors on the success of women and underrepresented minorities in STEM majors	\$192,203	<b>Lead PI:</b> Stearns, Mary	Sociology	<b>Sponsor:</b> National Science Foundation (NSF)
International Festival 2013	\$3,500	<b>Lead PI:</b> Anderson, Sandra	International Programs	<b>Sponsor:</b> City of Charlotte Arts and Science Council
IR Support for TSC	\$35,842	<b>Lead PI:</b> Boreman, Glenn <b>Co-PIs:</b> Souvenir, Richard	Physics and Optical Science	<b>Sponsor:</b> Technology Service Corporation <b>Prime Sponsor:</b> Missile Defense Agency
Joy Charter School TIMS Computerized Bus Routing Project. 2013	\$4,020	<b>Lead PI:</b> Pressley, JoAnne	Urban Institute	<b>Sponsor:</b> Joy Charter School
LSTA Access & Digitization 2013-2014 Project Grant	\$66,550	<b>Lead PI:</b> Evans, Meredith	Library Special Collections	<b>Sponsor:</b> North Carolina State Library <b>Prime Sponsor:</b> Institute of Museum and Library Services
MUC1 enhances Neuropilin-1 signaling in pancreatic ductal adenocarcinoma.	\$108,501	<b>Lead PI:</b> Mukherjee, Pinku	Biology	<b>Sponsor:</b> NIH National Cancer Institute (NCI)
National Science Foundation Graduate Research Fellowship Program	\$109,000	<b>Lead PI:</b> SELL, SUSAN	Graduate School	<b>Sponsor:</b> National Science Foundation (NSF)
Natural Resources and Conflict	\$82,295	<b>Lead PI:</b> Walsh, James <b>Co-PIs:</b> Whitaker, Beth; Conrad, Justin;	Political Science and Public Administration	<b>Sponsor:</b> Department of Defense (DOD)
Performance Evaluation of 29-inch and 31-inch W-beam Guardrails on Six-lane, 46-foot Median Divided Freeways	\$283,296	<b>Lead PI:</b> Fang, Hongbing	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> North Carolina Department of Transportation (NCDOT)

<b>Award Title</b>	<b>Amount</b>	<b>Investigators</b>	<b>Lead PI Dept.</b>	<b>Sponsors</b>
Ph.D. Graduate Assistantship with the Department of Counseling at The University of North Carolina at Charlotte.	\$24,300	<b>Lead PI:</b> Veach, Laura	Counseling	<b>Sponsor:</b> Wake Forest University Baptist Medical Center
Power System Study Utilizing Real Time DataThe EPIC at UNC Charlotte is collaborating with Duke Energy on Real Time Data Collection and Data Communication utilizing Digital Fault Recorder (DFR/PMU) project for model validation research and unit capability	\$90,000	<b>Lead PI:</b> Salami, Zia <b>Co-PIs:</b> Chowdhury, Badrul; Cox, Robert;	Electrical and Computer Engineering	<b>Sponsor:</b> Duke Energy Corporation
Research and Training Programs for Characterizing Coral Health	\$21,184	<b>Lead PI:</b> Ringwood, Amy	Biology	<b>Sponsor:</b> Florida Agricultural And Mechanical University (FAMU) <b>Prime Sponsor:</b> DOC National Oceanic and Atmospheric Administration (NOAA)
REU Site: Nanoscale Science Undergraduate Research Experience (NanoSURE) at UNC Charlotte	\$60,000	<b>Lead PI:</b> Schmedake, Thomas <b>Co-PIs:</b> Brown, Banita	Chemistry	<b>Sponsor:</b> National Science Foundation (NSF)
Selective Laser Vaporization of Hernia Mesh	\$20,150	<b>Lead PI:</b> Fried, Nathaniel	Physics and Optical Science	<b>Sponsor:</b> Carolinas HealthCare System
Spatial skills analysis	\$2,500	<b>Lead PI:</b> Hargrove, Linda Leigh	Student Development and Success	<b>Sponsor:</b> Stevens Institute of Technology <b>Prime Sponsor:</b> National Science Foundation (NSF)
Studying Ovarian Cancer Translational Research	\$19,200	<b>Lead PI:</b> Mostafavi, M.Taghi	Computer Science	<b>Sponsor:</b> Carolinas Medical Center (CMC)
Sugar Creek Charter School TIMS Computerized Bus Routing Project. 2013	\$4,020	<b>Lead PI:</b> Pressley, JoAnne	Urban Institute	<b>Sponsor:</b> Sugar Creek Charter School