

September 30, 2015

The Office of Research and Economic Development is pleased to announce awards received by UNC Charlotte Researchers in the month of August, 2015.

Total amount awarded for the month of August was \$4,106,845

Fiscal Year To Date Total: \$15,971,991

<b>Award Title</b>	<b>Amount</b>	<b>Investigators</b>	<b>PI Dept.</b>	<b>Sponsors</b>
<b>3D Nanostructure Design and Fabrication</b>	\$542,662	<b>Principal Investigator (PI):</b> Fiddy, Michael	Physics and Optical Science	<b>Sponsor:</b> Department of Defense (DOD) Department of the Army (DA) Army Research Office (ARO)
<b>A 3D human neural cell culture system for studying neuron-microglia interaction in Alzheimer's disease</b>	\$150,000	<b>Principal Investigator (PI):</b> Cho, Hansang	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> Massachusetts General Hospital <b>Prime Sponsor:</b> Cure Alzheimer's Fund
<b>Abrasion Testing of Roller Compacted Concrete Specimens</b>	\$2,595	<b>Principal Investigator (PI):</b> Cavalline, Tara	Engineering Technology and Construction Management	<b>Sponsor:</b> Andale Construction
<b>AFRL University Engineering Design Challenge Program</b>	\$20,000	<b>Principal Investigator (PI):</b> Browne, Aidan	Engineering Technology and Construction Management	<b>Sponsor:</b> Technology Service Corporation <b>Prime Sponsor:</b> Department of Defense (DOD) Development of the Air Force (DAF) Air Force Office of Scientific Research (AFOSR)
<b>Assessing the Fidelity of National Institute of Justice's (NIJ) Demonstration Field Experiment (DFE): Changing Attitudes and Motivation in Parolees (CHAMPS).</b>	\$134,170	<b>Principal Investigator (PI):</b> Listwan, Shelley <b>Co-PI:</b> Hartman, Jennifer	Criminal Justice and Criminology	<b>Sponsor:</b> Manpower Demonstration Research Corporation (MDRC) <b>Prime Sponsor:</b> National Institute of Corrections
<b>Building Healthy Lifestyles from All Directions</b>	\$114,392	<b>Principal Investigator (PI):</b> Racine, Elizabeth <b>Co-PI:</b> Saunders, William	Public Health Sciences	<b>Sponsor:</b> Cabarrus Partnership for Children

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<b>Carolinas Energy Planning for the Future</b>	\$105,000	<b>Principal Investigator (PI):</b> Shankar, Ramesh <b>Co-PIs:</b> Chowdhury, Badrul; Young, David; Enslin, Johan; Guyer, Regina	Energy Production and Infrastructure Center	<b>Sponsor:</b> North Carolina Department of Environment and Natural Resources (NCDENR) Division of Energy, Mineral and Land <b>Prime Sponsor:</b> Resources Department of Energy (DOE)
<b>Charlotte Teachers Institute's Exploding Canons: ¡NUEVOlution!</b>	\$2,000	<b>Principal Investigator (PI):</b> Gartlan, Scott	Deans Office College of Liberal Arts and Sciences	<b>Sponsor:</b> North Carolina Humanities Council
<b>Collaborative Research: A Dynamical Systems Approach to Shepherding and Sorting Microparticles in Fluids</b>	\$250,000	<b>Principal Investigator (PI):</b> Kelly, Scott <b>Co-PI:</b> Smith, Stuart	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Collaborative Research: A Novel Framework for Robust Online Periodic Optimal Control, with Application to Energy-Harvesting Flight and Intermittent Treatment of Chronic Disease</b>	\$113,826	<b>Principal Investigator (PI):</b> Vermillion, Christopher	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Competently Ready to Work</b>	\$12,498	<b>Principal Investigator (PI):</b> Martin, Florence <b>Co-PI:</b> Shore, Rebecca	Educational Leadership	<b>Sponsor:</b> University of North Carolina General Administration (UNC GA)
<b>Construction Monitoring Work Plan and Technical Evaluation AEP - Gavin Residuals Waste Landfill Expansion - North Berm Construction</b>	\$46,800	<b>Principal Investigator (PI):</b> Khire, Milind <b>Co-PI:</b> Hardin, Christopher	Civil and Environmental Engineering	<b>Sponsor:</b> Beaver Excavating <b>Prime Sponsor:</b> Company American Electric Power Company, Inc.
<b>Corrosion Testing of 304L SS &amp; 316L SS</b>	\$9,000	<b>Principal Investigator (PI):</b> Oza, Shubhashini <b>Co-PIs:</b> Keen, Olya; Guyer, Regina	Civil and Environmental Engineering	<b>Sponsor:</b> Geosyntec Consultants, Inc.

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<b>Cortical Measures of Postural Control in Uninjured Controls, Copers, and Those with Chronic Ankle Instability</b>	\$2,500	<b>Principal Investigator (PI):</b> Turner, Tricia <b>Co-PIs:</b> Fenwick, Abbey; Bursal, Christopher	Kinesiology	<b>Sponsor:</b> National Athletic Trainers Association (NATA) Research and Education Foundation
<b>Crossing Borders: Making Connections</b>	\$325,730	<b>Principal Investigator (PI):</b> Vincent, Sharon <b>Co-PIs:</b> Yang, Avonne; Toth, Cynthia; Baldwin, Defloris; Portwood, Sharon	School of Nursing	<b>Sponsor:</b> Health Resources and Services Administration (HRSA)
<b>Development of Next Generation Stabilization Agents for Cell-based Therapeutics</b>	\$278,237	<b>Principal Investigator (PI):</b> Elliott, Gloria	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> National Institute of Health (NIH) National Institute of General Medical Sciences (NIGMS)
<b>ECOHAB: Integrating Cell and Toxin Cycles of <i>Karlodinium veneficum</i> with Key Environmental Regulators: In Situ Studies of Predictive Determinants for Bloom Toxicity</b>	\$69,205	<b>Principal Investigator (PI):</b> Parrow, Matthew	Biological Sciences	<b>Sponsor:</b> National Oceanic and Atmospheric Administration (NOAA) National Ocean Service (NOS) National Centers for Coastal Ocean Science (NCCOS) Center for Sponsored Coastal Ocean Research (CSOR)
<b>Enhancing Data Collection and Management for Social Discovery Operations</b>	\$35,479	<b>Principal Investigator (PI):</b> Shehab, Mohamed	Software and Information Systems	<b>Sponsor:</b> Social Discovery Corp
<b>Generalized Semiparametric Varying Coefficients Models For Longitudinal Data</b>	\$119,999	<b>Principal Investigator (PI):</b> Sun, Yanqing	Mathematics and Statistics	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Geotechnical and Dewatering Monitoring Program for Appalachian Power Amos Fly Ash Basin Closure Project</b>	\$40,000	<b>Principal Investigator (PI):</b> Hardin, Christopher <b>Co-PI:</b> Khire, Milind	Energy Production and Infrastructure Center	<b>Sponsor:</b> American Electric Power Company, Inc.

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<b>Graduate Assistantship</b>	\$25,137	<b>Principal Investigator (PI):</b> Cecchi, Valentina	Electrical and Computer Engineering	<b>Sponsor:</b> Quanta Technology LLC
<b>Graduate Assistantship at Council for Children's Rights</b>	\$14,937	<b>Principal Investigator (PI):</b> Kilmer, Ryan <b>Co-PI:</b> Cook, James	Psychology	<b>Sponsor:</b> Council for Children's Rights (CFCR)
<b>Levine Museum of the New South, Nuevolution Dialogue Evaluation</b>	\$16,500	<b>Principal Investigator (PI):</b> Smith, Heather <b>Co-PI:</b> Harden, Susan	Geography and Earth Sciences	<b>Sponsor:</b> Levine Museum of the New South
<b>Light Control Spacer 45-32800-36</b>	\$2,998	<b>Principal Investigator (PI):</b> Owen, Joseph <b>Co-PI:</b> Davies, Matthew	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> Magic Leap Inc.
<b>Luminous Properties of Resilient Flooring - White Papers: Hospital application &amp; Retail A</b>	\$15,000	<b>Principal Investigator (PI):</b> Brentrup, Dale	School of Architecture	<b>Sponsor:</b> Armstrong World Industries, Inc.
<b>Materials Characterization Laboratory Services - Master Agreement with BSN Medical, Inc.</b>	\$396	<b>Principal Investigator (PI):</b> Weaver, Katherine	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> BSN Medical
<b>Materials Characterization Laboratory Services - Master Agreement with Gantrade Corporation</b>	\$430	<b>Principal Investigator (PI):</b> Weaver, Katherine	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> Gantrade Corporation
<b>Materials Characterization Laboratory Services - Master Agreement with Momentive UV Coatings (Shanghai) Co., Ltd.</b>	\$330	<b>Principal Investigator (PI):</b> Weaver, Katherine	Mechanical Engineering and Engineering Science	<b>Sponsor:</b> Momentive UV Coatings Shanghai Co., Ltd.

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<b>MCHD Smoke Free Evaluation</b>	\$30,000	<b>Principal Investigator (PI):</b> Issel, L	Public Health Sciences	<b>Sponsor:</b> Mecklenburg County Health Department
<b>Mining Patterns of Substance Use by Young Adults with Social Media Data</b>	\$161,467	<b>Principal Investigator (PI):</b> Ge, Yong <b>Co-PI:</b> Kazemi, Donna	Computer Science	<b>Sponsor:</b> National Institutes of Health (NIH)
<b>Motivated Teaching and Learning in K-12 Classrooms: Regional English Language Symposium (RELS)</b>	\$7,792	<b>Principal Investigator (PI):</b> Salas, Spencer	Middle, Secondary and K-12 Education	<b>Sponsor:</b> Oman Ministry of Higher Education
<b>NC-LSAMP-Phase V</b>	\$86,000	<b>Principal Investigator (PI):</b> Brown, Banita	Dean's Office College of Liberal Arts & Sciences	<b>Sponsor:</b> North Carolina Agricultural and Technical State University (NCAT) <b>Prime Sponsor:</b> National Science Foundation (NSF)
<b>OUTSpoken Speakers Series</b>	\$1,550	<b>Principal Investigator (PI):</b> Rhodes, Theresa	Counseling Center	<b>Sponsor:</b> Alliance for Full Acceptance (AFFA)
<b>REU Site: Nanoscale Science Undergraduate Research Experience (NanoSURE) at UNC Charlotte</b>	\$271,476	<b>Principal Investigator (PI):</b> Schmedake, Thomas <b>Co-PI:</b> Brown, Banita	Chemistry	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Role of Bacteria in Colitis-Associated Colon Cancer</b>	\$27,047	<b>Principal Investigator (PI):</b> Fodor, Anthony	Bioinformatics & Genomics	<b>Sponsor:</b> University of Florida <b>Prime Sponsor:</b> National Institutes of Health (NIH) National Institute of Diabetes, Digestive, and Kidney Diseases (NIDDKD)
<b>SCH: EXP: Collaborative Research: Preserving Genetic Privacy in Genetic Screening</b>	\$242,964	<b>Principal Investigator (PI):</b> Shi, Xinghua	Bioinformatics and Genomics	<b>Sponsor:</b> National Science Foundation (NSF)

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<b>SI2-SSE: TrajAnalytics: A Cloud-based Visual Analytics Software to Advance Transportation Studies Using Emerging Urban Trajectory Data</b>	\$200,950	<b>Principal Investigator (PI):</b> Yang, Jing	Computer Science	<b>Sponsor:</b> National Science Foundation (NSF)
<b>SRA FLEX Literacy</b>	\$195,363	<b>Principal Investigator (PI):</b> Flynn, Lindsay <b>Co-PI:</b> Beach, Kristen	Special Education and Child Development	<b>Sponsor:</b> McGraw-Hill Education
<b>Study the Cost Effectiveness of an Active Parking Lot Street Sweeping Program to Control Particulate, PAH, Nutrient and Trace Metal Loadings to Stormwater Runoff.</b>	\$47,602	<b>Principal Investigator (PI):</b> Allan, Craig	Geography and Earth Sciences	<b>Sponsor:</b> Charlotte-Mecklenburg County Storm Water Services
<b>Theseus: A Mobile Security Management Tool for Mitigating Attacks in Mobile Networks</b>	\$383,415	<b>Principal Investigator (PI):</b> Souvenir, Jamie	Computer Science	<b>Sponsor:</b> Department of Homeland Security (DHS)
<b>US Embassy Tokyo Federal Assistance Award Summer 2015</b>	\$1,398	<b>Principal Investigator (PI):</b> Salas, Spencer	Middle, Secondary and K-12 Education	<b>Sponsor:</b> US Department of State (DOS)