The Office of Research and Economic Development is pleased to announce awards received by UNC Charlotte Researchers in the month of June, 2014.

*Total amount awarded for the month of June was $6,776,254*  
*Fiscal Year To Date Total: $36,145,048*

<table>
<thead>
<tr>
<th>Award Title</th>
<th>Amount</th>
<th>Investigators</th>
<th>PI Dept.</th>
<th>Sponsors</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013-14 Problem Gambling Outreach/Prevention/Awareness Plan</td>
<td>$5,000</td>
<td>Principal Investigator (PI): Robinson, Leslie</td>
<td>Counseling Center</td>
<td>Sponsor: NCDHHS Division of Mental Health, Developmental Disabilities and Substance Abuse Services (MHDDSAS)</td>
</tr>
</tbody>
</table>
Prime Sponsor: Department of Defense (DOD) Missile Defense Agency |
<p>| Accessing young Black MSM for HIV prevention through online social networking | $140,945| Principal Investigator (PI): Rowan, Diana | Social Work                   | Sponsor: Department of Health and Human Services (DHHS) / Centers for Disease Control (CDC) |
| Behavioral Stigma Index                                                     | $6,360  | Principal Investigator (PI): Hadzikadic, Mirsad | Software and Information Systems | Sponsor: Carolinas HealthCare System |</p>
<table>
<thead>
<tr>
<th>Project Description</th>
<th>Funding</th>
<th>PI(s)</th>
<th>Sponsor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioethics Research Network - Food Ethics</td>
<td>$3,500</td>
<td>Hull, Gordon (Principal Investigator)</td>
<td>Philosophy North Carolina Biotechnology Center (NCBC)</td>
</tr>
<tr>
<td>CAREER: Plasmon-mediated photo-absorption and carrier recombination dynamics in semiconductor/metal hybrid nano-systems</td>
<td>$232,384</td>
<td>Jones, Marcus (Principal Investigator)</td>
<td>Chemistry National Science Foundation (NSF)</td>
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<tr>
<td>CeFO: Minimizing task specific uncertainty in CMM based freeform optics metrology</td>
<td>$16,260</td>
<td>Evans, Christopher (Principal Investigator)</td>
<td>Mechanical Engineering and Engineering Science University of Rochester Prime Sponsor: All Other Business and Industry</td>
</tr>
<tr>
<td>Children’s Scholarship Fund-Charlotte Student Outcome Evaluation 2014</td>
<td>$10,500</td>
<td>Gavarkavich, Diane (Principal Investigator)</td>
<td>Urban Institute Children’s Scholarship Fund</td>
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<tr>
<td>Collaborative Proposal: ABI Innovation: Rapid, Interactive, Visual Mining of Biological Motion</td>
<td>$230,724</td>
<td>Shin, Min (Principal Investigator)</td>
<td>Computer Science National Science Foundation (NSF)</td>
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<tr>
<td>Collaborative Research: I/UCRC Center for Configuration Analytics and Automation</td>
<td>$112,275</td>
<td>Al-Shaer, Ehab (Principal Investigator)</td>
<td>Software and Information Systems National Science Foundation (NSF)</td>
</tr>
<tr>
<td>Computational Modeling: bench-scale, pilot-scale, and full-scale ash/gypsum/wastewater mixtures in support of zero liquid discharge applications</td>
<td>$98,040</td>
<td>Daniels, John (Principal Investigator)</td>
<td>Civil and Environmental Engineering Southern Company</td>
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<tr>
<td>Continued Maintenance and Development of Software: Integrated Genome Browser and the Genoviz SDK, Visualization Software for Next-Generation Genomics</td>
<td>$294,171</td>
<td>Loraine, Ann (Principal Investigator)</td>
<td>Bioinformatics and Genomics NIH National Center for Research Resources (NCRR)</td>
</tr>
<tr>
<td>Project Title</td>
<td>Budget</td>
<td>Principal Investigator (PI):/Co-PI:</td>
<td>Department or Program</td>
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<tr>
<td>Cost Analysis on the Reuse of Concrete Residuals</td>
<td>$209,548</td>
<td>Tymvios, Nicholas/Cho, Chung-Suk; Cavalline, Tara</td>
<td>Engineering Technology and Construction Management</td>
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<tr>
<td>Development and Operation of a Web GIS-enabled Data Management System for the Santee Experimental Forest</td>
<td>$19,000</td>
<td>Tang, Wenwu</td>
<td>Geography and Earth Sciences</td>
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<tr>
<td>Development of Inverse Scattering - Structure Synthesis Methods; subwavelength scale imaging - metamaterial design</td>
<td>$53,150</td>
<td>Fiddy, Michael</td>
<td>Physics and Optical Science</td>
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<tr>
<td>Development of Testing Procedures for Experimental Evaluation of Mechanical Behavior of Composite Line Post Insulators</td>
<td>$34,004</td>
<td>Young, David</td>
<td>Civil and Environmental Engineering</td>
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<tr>
<td>Doctoral Dissertation Research: Socio-spatial Geographies of Hispanic Immigrant Youth Accessing the Urban Labor Market</td>
<td>$10,312</td>
<td>Smith, Heather/Joanna Schuch, Joanna</td>
<td>Geography and Earth Sciences</td>
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<td>Enhancing Social Service Research &amp; Evaluation</td>
<td>$15,484</td>
<td>Portwood, Sharon</td>
<td>Public Health Sciences</td>
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<tr>
<td>Evaluation of Benefit Weight Factors and Decision Trees for Automated Distress Data Models</td>
<td>$195,846</td>
<td>Chen, Dong/Hildreth, John; Nicholas, Thomas</td>
<td>Engineering Technology and Construction Management</td>
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<tr>
<td>Evaluation of the Implementation of the K-3 Formative Assessments</td>
<td>$250,000</td>
<td>Lambert, Richard/Sheue, Pamela</td>
<td>Educational Leadership</td>
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<tr>
<td>Title</td>
<td>Amount</td>
<td>Principal Investigator (PI)</td>
<td>Department/Field</td>
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<td>Exceptional Children Regional Positive Behavior Support/ Autism Consultant</td>
<td>$312,876</td>
<td>Algozzine, Robert</td>
<td>Educational Leadership</td>
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<tr>
<td>Girls and Tech</td>
<td>$3,000</td>
<td>Raja, Shagufta</td>
<td>Center for STEM Education</td>
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<tr>
<td>Graduate Assistantship with OrthoCarolina Research Institute</td>
<td>$22,008</td>
<td>Huet, Yvette</td>
<td>Kinesiology</td>
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<tr>
<td>Guideline for Roadway Utility Excavation Practices in NC Regions</td>
<td>$229,299</td>
<td>Chen, Shen-En; Pando, Miguel; Janardhanam, Rajaram</td>
<td>Civil and Environmental Engineering</td>
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<tr>
<td>High Resolution FTIR system for the identification of homemade explosives in conventional environments</td>
<td>$148,930</td>
<td>Aggarwal, Ishwar; Poutous, Menelaos</td>
<td>Physics and Optical Science</td>
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<tr>
<td>HRSA Scholarships for Disadvantaged Students (SDS) - BSN</td>
<td>$566,938</td>
<td>Edwards, Lienne</td>
<td>School of Nursing</td>
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<tr>
<td>Improved Data for Mechanistic-Empirical Pavement Design for Concrete Pavements</td>
<td>$229,955</td>
<td>Cavalline, Tara; Tempest, Brett</td>
<td>Engineering Technology and Construction Management</td>
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<td>Improvement of Material Criteria for Highway Embankment Construction</td>
<td>$215,605</td>
<td>Janardhanam, Rajaram; Pando, Miguel; Chen, Shen-En</td>
<td>Civil and Environmental Engineering</td>
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<td>Incarcerated Young Adults Study</td>
<td>$18,308</td>
<td>McCarter, Susan</td>
<td>Social Work</td>
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<tr>
<td>Project Description</td>
<td>Funding</td>
<td>Investigator(s)</td>
<td>Department</td>
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<td>Industrial membership fees for the new Site of I/UCRC Safety, Security, and Rescue Research Center</td>
<td>$65,951</td>
<td>Principal Investigator (PI): Xiao, Jing</td>
<td>Computer Science</td>
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<tr>
<td>Integration of IFC (Industry Foundation Class) and GIS (Geographical Information System) in BIM (Building Information Modeling)</td>
<td>$23,000</td>
<td>Principal Investigator (PI): Kim, Hyunjoo</td>
<td>Engineering Technology and Construction Management</td>
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<td>I/UCRC for Metamaterials</td>
<td>$42,165</td>
<td>Principal Investigator (PI): Astratov, Vasily</td>
<td>Physics and Optical Science</td>
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<tr>
<td>Measurement Uncertainty in Manufacturing Metrology - Data Pixel case study</td>
<td>$11,399</td>
<td>Principal Investigator (PI): Morse, Edward</td>
<td>Mechanical Engineering and Engineering Science</td>
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<tr>
<td>Mid-spatial frequency specification and characterization for freeform surfaces</td>
<td>$27,740</td>
<td>Principal Investigator (PI): Davies, Angela</td>
<td>Physics and Optical Science</td>
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<tr>
<td>Minimally Invasive Laser Treatment of Female Stress Urinary Incontinence</td>
<td>$433,901</td>
<td>Principal Investigator (PI): Fried, Nathaniel</td>
<td>Physics and Optical Science</td>
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<tr>
<td>Mobility Assessment with Sensors</td>
<td>$11,360</td>
<td>Principal Investigator (PI): Zheng, Naiquan</td>
<td>Mechanical Engineering and Engineering Science</td>
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<tr>
<td>Monetizing Reliability to Evaluate the Impact of Transportation Alternatives</td>
<td>$114,929</td>
<td>Principal Investigator (PI): Pulugurtha, Srinivas</td>
<td>Civil and Environmental Engineering</td>
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<td>Co-PI: Evans, Christopher</td>
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<td>Nurse Anesthetist Traineeship Program</td>
<td>$36,454</td>
<td>Principal Investigator (PI): Langford, David</td>
<td>School of Nursing</td>
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<tr>
<td>Project Description</td>
<td>Budget</td>
<td>Principal Investigator (PI):</td>
<td>Sponsor:</td>
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<td>Optical Superresolution for Metamaterial Inspection</td>
<td>$10,000</td>
<td>Astratov, Vasily</td>
<td>CUNY Center for Metamaterials</td>
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<tr>
<td>Performance Evaluation of Strong Post Double-faced W-beam Guardrail and Strong Post Doubled-faced Thrie-Beam Guardrail at MASH Test Level 4 (TL-4) and Test Level 5 (TL-5) conditions</td>
<td>$298,474</td>
<td>Fang, Hongbing</td>
<td>North Carolina Department of Transportation (NCDOT) Federal Highway Administration (FHWA)</td>
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<td>Confidential</td>
<td>$321,195</td>
<td>Fiddy, Michael</td>
<td>Confidential</td>
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<tr>
<td>Preventive Maintenance (PM) Criteria</td>
<td>$203,913</td>
<td>Hildreth, John, Co-PI: Tymvios, Nicholas</td>
<td>North Carolina Department of Transportation (NCDOT) Federal Highway Administration (FHWA)</td>
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<tr>
<td>Reactive-Ion Etching System to fabricate Large Optical Windows with High-Laser Damage Threshold for High-Energy Lasers (HEL)</td>
<td>$318,700</td>
<td>Aggarwal, Ishwar, Co-PI: Poutous, Menelaos</td>
<td>Department of Defense (DOD), Department of the Navy (DN) Office of Naval Research (ONR)</td>
</tr>
<tr>
<td>Regional EC Consultant, Exceptional Children (Education Consultant II)</td>
<td>$339,695</td>
<td>Algozzine, Robert</td>
<td>NC Dept of Public Instruction Department of Education (DOED)</td>
</tr>
<tr>
<td>REU Site: Nanoscale Science Undergraduate Research Experience (NanoSURE) at UNC Charlotte</td>
<td>$60,000</td>
<td>Schmedake, Thomas, Co-PI: Brown, Banita</td>
<td>National Science Foundation (NSF)</td>
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<tr>
<td>Science of Security Tablet</td>
<td>$144,823</td>
<td>Al-Shaer, Ehab</td>
<td>North Carolina State University (NCSU) Department of Defense (DOD National Security Agency (NSA))</td>
</tr>
<tr>
<td>Description</td>
<td>Budget</td>
<td>Investigator(s)</td>
<td>Field</td>
</tr>
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</tbody>
</table>
| Stabilize and Immobilize FGD Waste Water and ZLD Solids: Cost-Effectiveness Indicator Study | $49,452 | **Principal Investigator (PI):** Ogunro, Vincent  
**Co-PIs:** Tempest, Brett; Daniels, John | Civil and Environmental Engineering | Southern Company                                                                              |
| Stories of Slavery, Stories for Children                                  | $1,500  | **Principal Investigator (PI):** Connolly, Paula                                | English                                   | Boston Athenaeum                                                                                |
| Student Support Services Program                                          | $259,651| **Principal Investigator (PI):** Blat, Catherine  
**Co-PI:** Lucas, Mary | University Center for Academic Excellence | Department of Education (DOED)                |
| Technology Budget                                                         | $38,759 | **Principal Investigator (PI):** McAllister, George                             | Small Business Technology Development Center (SBTDC) | North Carolina Small Business and Technology Development Center (NC SBTDC)  
**Prime Sponsor:** Small Business Administration |
| The effect of isometric exercise on the regulation of blood glucose       | $1,200  | **Principal Investigator (PI):** Marino, Joseph                                 | Kinesiology                                | Nova Biomedical Corporation                                                                       |
| UPRM-CREST Evaluation                                                     | $12,000 | **Principal Investigator (PI):** Dika, Sandra                                  | Educational Leadership                     | University of Puerto Rico Mayaguez Campus  
**Prime Sponsor:** National Science Foundation (NSF) |
| Water repellency for ash containment and reuse                            | $93,369 | **Principal Investigator (PI):** Daniels, John  
**Co-PIs:** Pando, Miguel; Ogunro, Vincent | Civil and Environmental Engineering | Environmental Research and Education Foundation                                |
| What do Healthy, Unhealthy, and Abusive Relationships look like? Listening to Diverse Communities in Charlotte-Mecklenburg County | $5,000  | **Principal Investigator (PI):** Kulkarni, Shanti                              | Social Work                                | Charlotte Mecklenburg County                                                                     |
| Wide Spectral Band Laser Threat Sensor                                    | $15,006 | **Principal Investigator (PI):** Suleski, Thomas  
**Co-PI:** Boreman, Glenn | Physics and Optical Science           | Nanohmics, Inc.  
**Prime Sponsor:** Department of Defense (DOD) Department of the Navy (DN) |