

November 8, 2016

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

Total amount awarded for the month of September was \$7,023,338

Fiscal Year To Date Total: \$20,253,135

| Award Title | Amount | Investigators | PI Dept. | Sponsors |
|---|---------------|--|-------------------------------------|--|
| 2016-2017 Charlotte-Mecklenburg Quality of Life Study (County) | \$20,000 | Principal Investigator (PI): Simmons, Laura Co-PI: Zager, Kathryn | Urban Institute | Sponsor: Charlotte Mecklenburg County |
| 2016-2017 Collegiate Recovery Community Project | \$125,000 | Principal Investigator (PI): Dooley, Beau | Center for Wellness Promotion | Sponsor: University of North Carolina General Administration (UNC GA) Prime Sponsor: North Carolina Department of Health and Human Services (NCDHHS) Division of Mental Health, Developmental Disabilities and Substance Abuse Services (MHDDSAS) |
| A Systematic Process for Vulnerability Assessment of Biometric Systems at Borders | \$100,768 | Principal Investigator (PI): Cukic, Bojan Co-PI: Shehab, Mohamed | Computer Science | Sponsor: University of Houston Prime Sponsor: Department of Homeland Security (DHS) |
| AI SL: Collaborative: Innovations in Development: Community-Driven Projects That Adapt Technology for Environmental Learning in Nature Preserves | \$310,957 | Principal Investigator (PI): Maher, Mary Co-PI: Grace, Kazjon | Software and Information Systems | Sponsor: National Science Foundation (NSF) |
| Bench-scale Evaluation of ZapZorb Super Absorbent Polymer (SAP) and PowerPellets -Phase 1 | \$29,000 | Principal Investigator (PI): Khire, Milind Co-PI: Hardin, Christopher | Civil and Environmental Engineering | Sponsor: ZappaTec, Inc. |
| Cabarrus County CDC REACH Evaluation | \$80,000 | Principal Investigator (PI): Racine, Elizabeth | Public Health Sciences | Sponsor: Cabarrus County Prime Sponsor: Centers for Disease Control and Prevention (CDC) |

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|--|---------------|---|-------------------------------------|--|
| Campus Week 2016-Germany Meets the US--Patchwork German: Migration and Intercultural Communication | \$5400, | Principal Investigator (PI): Aliaga-Buchenau, Ana-Isabel | Languages and Culture Studies | Sponsor: Embassy of the Federal Republic of Germany |
| Charlotte Mecklenburg Senior Center - Graduate Student Support | \$37,608 | Principal Investigator (PI): Arthur, Susan | Kinesiology | Sponsor: Mecklenburg County Parks and Recreation Department |
| Charting the Civic Landscape in 2016-Knight | \$85,000 | Principal Investigator (PI): Gavarkavich, Diane | Urban Institute | Sponsor: John S and James L Knight Foundation |
| Collaborative Research: I/UCRC for Robots and Sensors for the Human Well-being | \$65,000 | Principal Investigator (PI): Xiao, Jing Co-PI: Akella, Srinivas | Computer Science | Sponsor: National Science Foundation (NSF) |
| Collaborative Research: IUCRC Center for Configuration Analytics and Automation | \$46,820 | Principal Investigator (PI): Al-Shaer, Ehab Co-PI: Chu, Bei-Tseng | Software and Information Systems | Sponsor: National Science Foundation (NSF) |
| Customer Persona Project | \$49,815 | Principal Investigator (PI): Simmons, Laura Co-PIs: Gavarkavich, Diane; Swiderski, Thomas | Urban Institute | Sponsor: Crisis Assistance Ministry |
| Developing knowledge models to enable rapid learning in radiation therapy. | \$203,135 | Principal Investigator (PI): Ge, Yaorong | Software and Information Systems | Sponsor: Duke University Health System Prime Sponsor: National Institutes of Health (NIH) |
| Development and analysis of a high-efficiency concentration solar power plant | \$4,000 | Principal Investigator (PI): Young, David | Civil and Environmental Engineering | Sponsor: American Public Power Association (APPA) |
| Evaluate combination of MUC1 vaccines with cyclophosphamide and checkpoint inhibitors in syngeneic murine model of cancer | \$55,212 | Principal Investigator (PI): Mukherjee, Pinku | Biological Sciences | Sponsor: ViaMune, Inc. |
| Evaluation of the Medicare BPCI Model 2 | \$10,000 | Principal Investigator (PI): Saunders, William | Public Health Sciences | Sponsor: Precision Health Economics (PHE) |

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| Healthy Partnerships for Active Living (PALS) FY 16-17 | \$10,000 | Principal Investigator (PI): Gavarkavich, Diane | Urban Institute | Sponsor: Cabarrus Health Alliance |
| High Order and Efficient Numerical Methods for Simulating Electromagnetic Phenomena | \$170,000 | Principal Investigator (PI): Cai, Wei Co-PI: Chen, Duan | Mathematics and Statistics | Sponsor: National Science Foundation (NSF) |
| I/UCRC for Sustainably Integrated Buildings and Sites | \$93,000 | Principal Investigator (PI): Cox, Robert Co-PIs: Daniels, John; Clinton, Sandra | Electrical and Computer Engineering | Sponsor: National Science Foundation (NSF) |
| In Vivo Mouse Models of Double-strand Break Repair and Recombination | \$436,952 | Principal Investigator (PI): Richardson, Christine | Biological Sciences | Sponsor: National Institutes of Health (NIH) |
| Integrated Planning and Advising Services--The Next 10% | \$75,000 | Principal Investigator (PI): Lorden, Joan Co-PIs: Smail, John; Carlin, Michael; Coppola, Stephen | Academic Affairs | Sponsor: EDUCAUSE |
| Internal Curing of Concrete Using Lightweight Aggregate | \$11,510 | Principal Investigator (PI): Cavalline, Tara Co-PI: Tempest, Brett | Engineering Technology and Construction Management | Sponsor: North Carolina Department of Transportation (NCDOT) Prime Sponsor: Federal Highway Administration (FHWA) |
| International Facility Management Association Operations and Maintenance Report | \$37,000 | Principal Investigator (PI): Smithwick, Jake | Engineering Technology and Construction Management | Sponsor: International Facility Management Association (IFMA) |
| Maintenance and Launch of Provider 360 | \$46,175 | Principal Investigator (PI): Richardson, Sonya | School of Social Work | Sponsor: Cardinal Innovations Healthcare Solutions |

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| Master Research Agreement MCA-UNCC-082214 | \$142,500 | Principal Investigator (PI): Blanchette, Christopher Co-PIs: Zacherle, Emily; Noone, Joshua; Howden, Reuben | Public Health Sciences | Sponsor: DataMed Solutions, LLC |
| Materials Characterization Laboratory Services - Master Agreement with Momentive UV Coatings (Shanghai) Co., Ltd. | \$460 | Principal Investigator (PI): Weaver, Katherine | Mechanical Engineering and Engineering Science | Sponsor: Momentive UV Coatings Shanghai Co., Ltd. |
| Mecklenburg Housing Reports Project 2016 | \$4,050 | Principal Investigator (PI): Clark, Ashley | Urban Institute | Sponsor: Mecklenburg County Community Support Services |
| Microbiome-mediated weight, anxiety, and stress dysregulation in anorexia nervosa. | \$10,831 | Principal Investigator (PI): Fodor, Anthony | Bioinformatics Research Center | Sponsor: University of North Carolina at Chapel Hill (UNC-CH) Prime Sponsor: National Institutes of Health (NIH) |
| Micro-Needle 12-up Array Brass Mold and Material Testing | \$51,700 | Principal Investigator (PI): Owen, Joseph Co-PI: Davies, Matthew | Mechanical Engineering and Engineering Science | Sponsor: Georgia Research Alliance (GRA) |
| Molecular basis and evolution of complex trait variation with significance in human health | \$438,926 | Principal Investigator (PI): Song, Bao-Hua | Biological Sciences | Sponsor: National Institutes of Health (NIH) |
| National Technical Assistance Center on Increasing Graduation and Improving Transition to Postsecondary Education and Careers for students with Disabilities | \$3,099,997 | Principal Investigator (PI): Test, David Co-PI: Fowler, Catherine | Special Education and Child Development | Sponsor: US Department of Education (DOED) |
| NC coaching, mentoring, performance evaluation and professional development for birth through kindergarten licensed teachers employed in nonpublic school classrooms | \$652,662 | Principal Investigator (PI): Lambert, Richard Co-PI: Vestal, Amanda | Educational Leadership | Sponsor: North Carolina Department of Health and Human Services (NCDHHS) |

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| Neck Motion with Head Supported Mass | \$27,560 | Principal Investigator (PI): Zheng, Naiquan | Mechanical Engineering and Engineering Science | Sponsor: CFD Research Corporation Prime Sponsor: Department of Defense (DOD) Department of the Army (DA) Army Research Office (ARO) |
| Signal Processing for a 3-D Profilometer | \$8,404 | Principal Investigator (PI): Davies, Angela | Physics and Optical Science | Sponsor: Optoniks |
| Take Ten Initiative: Qualitative Data Collection and Evaluation | \$2,500 | Principal Investigator (PI): Gavarkavich, Diane Co-PI: Swiderski, Thomas | Urban Institute | Sponsor: City of Charlotte Prime Sponsor: John S and James L Knight Foundation |
| Theseus: A Mobile Security Management Tool for Mitigating Attacks in Mobile Networks | \$376,312 | Principal Investigator (PI): Souvenir, Jamie | Computer Science | Sponsor: Department of Homeland Security (DHS) |
| Ventureprise Charlotte Launch Program | \$100,084 | Principal Investigator (PI): Wetenhall, Paul Co-PIs: Collins, Devin; Conrad, James; Webb, Justin | Ventureprise | Sponsor: National Science Foundation (NSF) |