The Office of Research and Economic Development is pleased to announce awards received by UNC Charlotte Researchers in the month of June, 2017.

Total amount awarded for the month of June was \$6,413,561

Fiscal Year To Date Total: \$50,917,579

Award Title	Amount	Investigators	PI Dept.	Sponsors
2017-2018 NC Coaching, Mentoring, Performance Evaluation and Professional Development for Birth through Kindergarten Licensed Teachers Employed in Nonpublic School Classrooms	\$1,449,730	Principal Investigator (PI): Lambert, Richard Co-PI: Vestal, Amanda	Educational Leadership	Sponsor: North Carolina Department of Health and Human Services (NCDHHS) Prime Sponsor: Department of Health and Human Services (DHHS)
ABI Development: Pathview: a systematic solution for pathway based analytics and visualization	\$228,089	Principal Investigator (PI): Luo, Weijun	Bioinformatics Research Center	Sponsor: National Science Foundation (NSF)
APLU IES Completion Grant	\$60,000	Principal Investigator (PI): McEntire, Tina Co-PI: Ramstack, Kathryn	Enrollment Management	Sponsor: Association of Public and Land-grant Universities (APLU) Prime Sponsor: US Department of Education (DOED)
CAREER: Plasmon-mediated photo-absorption and carrier recombination dynamics in semiconductor/metal hybrid nano-systems	\$35,000	Principal Investigator (PI): Jones, Marcus	Chemistry	Sponsor: National Science Foundation (NSF)
CISE Evaluation Toolkit Extension Project	\$37,999	Principal Investigator (PI): Rorrer, Audrey	Deans Office College of Computing and Informatics	Sponsor: National Science Foundation (NSF)
Collaborative Research on Fire and Structures Phase 1: Performance of Gels	\$25,000	Principal Investigator (PI): Zhou, Aixi	Engineering Technology and Construction Management	Sponsor: Insurance Institute for Business and Home Safety
Collaborative Research on Fire and Structures: Phase 2 of 2	\$25,000	Principal Investigator (PI): Zhou, Aixi	Engineering Technology and Construction Management	Sponsor: Insurance Institute for Business and Home Safety

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Collaborative Research: IUCRC Center for Configuration Analytics and Automation	\$102,275	Principal Investigator (PI): Al-Shaer, Ehab Co-PI: Chu, Bei-Tseng	Software and Information Systems	Sponsor: National Science Foundation (NSF)
Collaborative: I/UCRC: Center for free form optics	\$60,000	Principal Investigator (PI): Davies, Matthew Co-PI: Suleski, Thomas	Mechanical Engineering and Engineering Science	Sponsor: National Science Foundation (NSF)
Confidential	\$42,520	Principal Investigator (PI): Hofmann, Tino	Physics and Optical Science	Sponsor: Confidential Prime Sponsor: Confidential
Continued Maintenance and Development of Software: Integrated Genome Browser and the Genoviz SDK, Visualization Software for Next- Generation Genomics	\$373,643	Principal Investigator (PI): Loraine, Ann	Bioinformatics and Genomics	Sponsor: National Institutes of Health (NIH) National Center for Research Resources (NCRR)
Developing knowledge models to enable rapid learning in radiation therapy.	\$208,747	Principal Investigator (PI): Ge, Yaorong	Software and Information Systems	Sponsor: Duke University Health System Prime Sponsor: National Institutes of Health (NIH)
EAGER: MAKER: Making Prosthetics for Kids - Socially Relevant Making to Catalyze Diversity and Engagement in STEM Learning	\$298,186	Principal Investigator (PI): Wilson, David Co-PI: Chi, Richard	Software and Information Systems	Sponsor: National Science Foundation (NSF)
Energy Performance Assessment Process for a Near Real-Time Dashboard: Task 5 - Implementation & Reporting	\$108,246	Principal Investigator (PI): Cox, Robert	Electrical and Computer Engineering	Sponsor: Geosyntec Consultants, Inc. Prime Sponsor: Department of Defense (DOD)
Enhancing summer research opportunities for low-income high school students	\$2,490	Principal Investigator (PI): Schmedake, Thomas	Chemistry	Sponsor: North Carolina State University (NCSU) Prime Sponsor: National Aeronautics and Space Administration (NASA)
Fire Ember Production from Wildland and Structural Fuels	\$15,946	Principal Investigator (PI): Zhou, Aixi	Engineering Technology and Construction Management	Sponsor: Joint Fire Science Program (JFSP)

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GIS Internship with the Episcopal Diocese of North Carolina	\$5,272	Principal Investigator (PI): Clinton, Sandra Co-PI: Delmelle, Eric	Geography and Earth Sciences	Sponsor: Episcopal Diocese of North Carolina
Healthy Partnerships for Active Living (PALS) FY 17-18	\$10,000	Principal Investigator (PI): Gavarkavich, Diane	Urban Institute	Sponsor: Cabarrus Health Alliance
How Much Are We Spending on Election Administration? A Proposal to Find Local Election Administration Finance Data and Election Outcomes	\$19,895	Principal Investigator (PI): Mohr, Zachary Co-PI: Kropf, Martha	Political Science and Public Administration	Sponsor: MIT Election Data and Science Lab
HRSA Scholarships for Disadvantaged Students - Behavioral Health Scholars Program	\$542,682	Principal Investigator (PI): Herman-Smith, Robert	School of Social Work	Sponsor: Health Resources and Services Administration (HRSA)
Investigation of the Interaction of Multiple Infrared Filters with Long Wavelength Infrared Spectra of Explosives and Interferents	\$140,000	Principal Investigator (PI): Aggarwal, Ishwar Co-PIs: Poutous, Menelaos; Hutchens, Thomas	Physics and Optical Science	Sponsor: Department of Defense (DOD) Department of the Navy (DN) Office of Naval Research (ONR)
K-5 SITE Summer Science Institute	\$25,000	Principal Investigator (PI): Wickliff, Alisa	Center for STEM Education	Sponsor: Charlotte Mecklenburg Schools
Kinematics of the Knee following ACL Reconstruction with BPTB and HS tendon Grafts	\$600	Principal Investigator (PI): Zheng, Naiquan	Mechanical Engineering and Engineering Science	Sponsor: OrthoCarolina Research Institute (OCRI)
Laboratory Testing pf Braced Post (Composite) Insulators to Determine 3D Load-Carrying Capacities	\$49,000	Principal Investigator (PI): Young, David	Civil and Environmental Engineering	Sponsor: Electric Power Research Institute (EPRI)
LCS International Film Festival - Tournees	\$2,200	Principal Investigator (PI): Bissiere, Michele Co-PI: LaMarca, Mary	Languages and Culture Studies	Sponsor: French American Cultural Exchange (FACE)
Mineta National Transportation Research Consortium (MNTRC)	\$149,934	Principal Investigator (PI): Pulugurtha, Srinivas Co-PIs: Hauser, Edwin; Duddu, Venkata Ramana	Civil and Environmental Engineering	Sponsor: San Jose State University Prime Sponsor: US Department of Transportation (DOT)

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Modeling Persuasion and Group Behavior in Big Data	\$30,000	Principal Investigator (PI): Shaikh, Samira	Computer Science	Sponsor: National Consortium for Data Science
MPA Public Service fellowship with Habitat for Humanity Charlotte	\$26,399	Principal Investigator (PI): Barth, Thomas	Political Science and Public Administration	Sponsor: Habitat for Humanity Charlotte
NC2ML II: Design and research related to implementation of revised K-12 math standards for NC DPI Mathematics Section	\$55,078	Principal Investigator (PI): McCulloch, Allison Co-PI: Stephan, Michelle	Mathematics and Statistics	Sponsor: University of North Carolina at Greensboro (UNCG) Prime Sponsor: North Carolina Department of Public Instruction (NCDPI)
Near-Zero Power Integrated Circuits	\$200,867	Principal Investigator (PI): Holleman, Jeremy	Electrical and Computer Engineering	Sponsor: University of Tennessee at Knoxville (UTK) Prime Sponsor: Department of Defense (DOD) Defense Advanced Research Projects Agency (DARPA)
Nurse Anesthesia Traineeship, UNC Charlotte	\$31,198	Principal Investigator (PI): Langford, David	School of Nursing	Sponsor: Health Resources and Services Administration (HRSA)
Operating FLEX engines on other than ULS fuel	\$92,511	Principal Investigator (PI): Uddin, Mesbah Co-PIs: Tkacik, Peter; Bari, Saiful	Mechanical Engineering and Engineering Science	Sponsor: Electric Power Research Institute (EPRI)
Phase II CfM Industry Membership Funds	\$685,000	Principal Investigator (PI): Aggarwal, Ishwar	Physics and Optical Science	Sponsor: All Other Business and Industry
Phaseless inverse scattering problems for imaging of nano structures	\$57,143	Principal Investigator (PI): Klibanov, Michael Co-PI: Nguyen, Loc	Mathematics and Statistics	Sponsor: Department of Defense (DOD) Department of the Navy (DN) Office of Naval Research (ONR)
Polynomials in algebraic and topological combinatorics	\$42,000	Principal Investigator (PI): Hetyei, Gabor	Mathematics and Statistics	Sponsor: Simons Foundation
Process chains for cost effective production of glass freeform optics	\$34,800	Principal Investigator (PI): Davies, Matthew Co-PIs:	Mechanical Engineering and Engineering Science	Sponsor: University of Rochester Prime Sponsor: All Other Business and Industry

Award Title	Amount	Investigators	PI Dept.	Sponsors
		Owen, Joseph; Suleski, Thomas		
Regional EC Education Consultant and State Performance Plan Consultant	\$358,377	Principal Investigator (PI): Anderson, Kelly	Special Education and Child Development	Sponsor: North Carolina Department of Public Instruction (NCDPI) Prime Sponsor: US Department of Education (DOED)
Regulation of floral growth and patterning in Arabidopsis thaliana	\$31,702	Principal Investigator (PI): Loraine, Ann	Bioinformatics and Genomics	Sponsor: University of South Carolina (USC) Prime Sponsor: National Science Foundation (NSF)
REU Site: Nanoscale Science Undergraduate Research Experience (NanoSURE) at UNC Charlotte	\$35,000	Principal Investigator (PI): Schmedake, Thomas Co-PIs: Brown, Banita; Gartlan, Scott	Chemistry	Sponsor: National Science Foundation (NSF)
SBIR: Optimal Rewarming Solutions for Cryopreserved Tissue Systems	\$101,739	Principal Investigator (PI): Elliott, Gloria Co-PIs: Clemens, Mark; Wang, Shangping	Mechanical Engineering and Engineering Science	Sponsor: TDA Research, Inc. Prime Sponsor: Department of Defense (DOD)
Scattering, inverse scattering problems and non-linear integrable equations	\$42,000	Principal Investigator (PI): Vainberg, Boris	Mathematics and Statistics	Sponsor: Simons Foundation
Set-theoretic methods and the study of compact spaces	\$60,012	Principal Investigator (PI): Dow, Alan	Mathematics and Statistics	Sponsor: National Science Foundation (NSF)
Statistical Methods in HIV Vaccine Efficacy Trials	\$90,463	Principal Investigator (PI): Sun, Yanqing	Mathematics and Statistics	Sponsor: Fred Hutchinson Cancer Research Center Prime Sponsor: National Institutes of Health (NIH) National Institute of Allergy and

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				Infectious Diseases (NIAID)
Status Cues, Status Biases, and Interaction	\$128,329	Principal Investigator (PI): Webster, Murray Co-PI: Walker, Lisa	Sociology	Sponsor: National Science Foundation (NSF)
Streaming Query User Interface	\$9,767	Principal Investigator (PI): Dou, Wenwen	Computer Science	Sponsor: Battelle Pacific Northwest Laboratories Prime Sponsor: Department of Energy (DOE)
Strengthening Survivor- Centered Services through Focused Training, Evaluation, and Partnership	\$35,000	Principal Investigator (PI): Kulkarni, Shanti	School of Social Work	Sponsor: Charlotte Mecklenburg County
STTR: Novel OSINT Platform for Enhanced OSINT Collection	\$43,750	Principal Investigator (PI): Tolone, William	Deans Office College of Computing and Informatics	Sponsor: Zeuss, Inc. Prime Sponsor: Department of Defense (DOD) Department of the Army (DA) Army Research Office (ARO)
STTR: STTR Phase I:Video Collaboratory: Team-Based Learning and Collaboration with Video Documents	\$67,500	Principal Investigator (PI): Collins, Devin Co-PIs: Latulipe, Celine; Wilson, David; Huskey, Sybil	Ventureprise	Sponsor: Video Collaboratory, LLC Prime Sponsor: National Science Foundation (NSF)
Sugar Creek Charter School TIMS Computerized Bus Routing Project 2017-18	\$2,700	Principal Investigator (PI): Pressley, JoAnne	Urban Institute	Sponsor: Sugar Creek Charter School
Take Ten Initiative Part 2	\$7,560	Principal Investigator (PI): Gavarkavich, Diane	Urban Institute	Sponsor: City of Charlotte Prime Sponsor: John S and James L Knight Foundation
Technology-Rich Units for Future Secondary Teachers: Forging Mathematical Connections Through the Geometry of Functions	\$7,570	Principal Investigator (PI): McCulloch, Allison	Mathematics and Statistics	Sponsor: North Carolina State University (NCSU) Prime Sponsor:

Award Title	Amount	Investigators	PI Dept.	Sponsors
				National Science Foundation (NSF)
Toxin expression and function by an estuarine model species in a dynamic seasonal community	\$34,403	Principal Investigator (PI): Reitzel, Adam	Biological Sciences	Sponsor: National Science Foundation (NSF)
Understanding the complexity of the transcriptomes in E. coli K12	\$28,739	Principal Investigator (PI): Su, ZhengChang	Bioinformatics and Genomics	Sponsor: National Institutes of Health (NIH) National Institute of General Medical Sciences (NIGMS)
University of Puerto Rico - Mayaguez CREST Evaluation, continuing	\$6,500	Principal Investigator (PI): Dika, Sandra	Educational Leadership	Sponsor: University of Puerto Rico Mayaguez Campus Prime Sponsor: National Science Foundation (NSF)
Wideband contactless current sensors	\$50,000	Principal Investigator (PI): Parkhideh, Babak	Electrical and Computer Engineering	Sponsor: National Science Foundation (NSF)