

November 22, 2019

The Office of Research and Economic Development is pleased to announce awards received by UNC Charlotte Researchers in the month of October, 2019.

*Total amount awarded for the month of October was \$2,527,450*

*Fiscal Year To Date Total: \$23,725,107*

<b>Award Title</b>	<b>Amount</b>	<b>Investigators</b>	<b>PI Dept.</b>	<b>Sponsors</b>
<b>2019-2020 NCSIP IHE Partnership</b>	\$10,000	<b>Principal Investigator (PI):</b> Sacco, Donna	Special Education and Child Development	<b>Sponsor:</b> North Carolina Department of Public Instruction (NCDPI) <b>Prime Sponsor:</b> US Department of Education (DOED)
<b>5E Model Professional Development in Science Education for Special Educators</b>	\$82,910	<b>Principal Investigator (PI):</b> Wakeman, Shawnee <b>Co-PI:</b> Pugalee, David	Special Education and Child Development	<b>Sponsor:</b> University of Kansas <b>Prime Sponsor:</b> US Department of Education (DOED)
<b>Addressing the Racial Wealth Gap in Charlotte</b>	\$14,175	<b>Principal Investigator (PI):</b> Thomas, Marye <b>Co-PI:</b> Gaines, Angelique	Urban Institute	<b>Sponsor:</b> Bank of America
<b>CERDEC Energy Management System Technical Support</b>	\$75,000	<b>Principal Investigator (PI):</b> Mazzola, Michael <b>Co-PIs:</b> LeClair, Andrew; Shoubaki, Ehab; Gafford, James	Energy Production and Infrastructure Center	<b>Sponsor:</b> Hyperion Technology Group, Inc <b>Prime Sponsor:</b> CACI Technologies, Inc.
<b>CHARLOTTE BREATHS</b>	\$23,080	<b>Principal Investigator (PI):</b> Papanikolaou, Dimitrios	School of Architecture	<b>Sponsor:</b> The Miami Foundation <b>Prime Sponsor:</b> John S. and James L. Knight Foundation
<b>Circuit Protection for Motor Control Center (MCC)</b>	\$100,000	<b>Principal Investigator (PI):</b> Zhao, Tiefu	Energy Production and Infrastructure Center	<b>Sponsor:</b> Kedu Elektrotechnik GmbH

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<b>Collaborative Research: Retaining and Engaging CS Majors By Solving and Visualizing Algorithmic Problems on Real-World Data Sets</b>	\$9,600	<b>Principal Investigator (PI):</b> Subramanian, Kalpathi <b>Co-PI:</b> Saule, Erik	Computer Science	<b>Sponsor:</b> National Science Foundation (NSF)
<b>Colonial Representations and Decolonial Interventions: A Rhetorical Cross-Cultural Study of the Indigenous Mascotting Controversy in Canadian and U.S. Cultures of Sport</b>	\$25,000	<b>Principal Investigator (PI):</b> Black, Jason	Communication Studies	<b>Sponsor:</b> Fulbright Scholar Program
<b>Cost Effective Rare-Earth-Free Flux Doubling, Torque Doubling, 8X Power Density Traction Motor with Near-Zero Open-Circuit Back-EMF and No Cogging Torque</b>	\$279,848	<b>Principal Investigator (PI):</b> Essakiappan, Somasundaram <b>Co-PI:</b> Manjrekar, Madhav	Energy Production and Infrastructure Center	<b>Sponsor:</b> Department of Energy (DOE)
<b>Developing a Safe and Cost-Effective Physics-Based Flight Control Methodology for a UAV-Enabled Bridge Inspection</b>	\$65,249	<b>Principal Investigator (PI):</b> Goudarzi, Navid	Engineering Technology and Construction Management	<b>Sponsor:</b> North Carolina Agricultural and Technical State University (NCAT) <b>Prime Sponsor:</b> North Carolina Department of Transportation (NCDOT)
<b>Development of Course Materials for Massive Open Online Course in Basic Electromagnetics</b>	\$70,000	<b>Principal Investigator (PI):</b> Smith, Kathryn	Electrical and Computer Engineering	<b>Sponsor:</b> ANSYS, Inc.
<b>DoS English Language Specialist Award to Tunisia October 2019</b>	\$7,233	<b>Principal Investigator (PI):</b> Salas, Spencer	Middle, Secondary and K-12 Education	<b>Sponsor:</b> Georgetown University <b>Prime Sponsor:</b> Department of State (DOS)
<b>EPIC Affiliates Industry Memberships for Seed Funded Projects.</b>	\$13,986	<b>Principal Investigator (PI):</b> Kopitopoulou, Christina	Energy Production and Infrastructure Center	<b>Sponsor:</b> Advanced Energy Corporation

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<b>Evaluation of Co-Delivery and Therapeutic Efficacy of siRNA and miRNA to Prostate Cancer by Nucleic Acid Nanovehicles</b>	\$18,875	<b>Principal Investigator (PI):</b> Afonin, Kirill	Chemistry	<b>Sponsor:</b> Ball State University <b>Prime Sponsor:</b> National Institutes of Health (NIH)
<b>I-14 Data Collection for Student-Centered Transition Networks</b>	\$110,683	<b>Principal Investigator (PI):</b> Mazzotti, Valerie	Special Education and Child Development	<b>Sponsor:</b> Sam Houston State University <b>Prime Sponsor:</b> US Department of Education (DOED)
<b>Implementing a Social-Ecological Suicide Prevention Program (SESPP) at Old Dominion University</b>	\$7,565	<b>Principal Investigator (PI):</b> Cramer, Robert	Public Health Sciences	<b>Sponsor:</b> Old Dominion University <b>Prime Sponsor:</b> Substance Abuse and Mental Health Services Administration (SAMHSA)
<b>Laboratory Testing of Braced Post (Composite) Insulators to Determine 3D Load-Carrying Capacities</b>	\$8,860	<b>Principal Investigator (PI):</b> Park, Youngjin <b>Co-PI:</b> Gergely, Ioan	Energy Production and Infrastructure Center	<b>Sponsor:</b> Electric Power Research Institute (EPRI)
<b>Laser Sealing and Cutting of Vascular Tissues</b>	\$452,977	<b>Principal Investigator (PI):</b> Fried, Nathaniel	Physics and Optical Science	<b>Sponsor:</b> National Institutes of Health (NIH)
<b>Material Deviance In Contemporary American Culture</b>	\$12,430	<b>Principal Investigator (PI):</b> Justice, Adam	Deans Office College of Arts and Architecture	<b>Sponsor:</b> New England Foundation for the Arts
<b>Mechanisms that Predict Weight Trajectory after Bariatric Surgery: The Interactive Roles of Behavior and Biology</b>	\$116,959	<b>Principal Investigator (PI):</b> Fodor, Anthony	Bioinformatics and Genomics	<b>Sponsor:</b> University of North Carolina at Chapel Hill (UNC-CH) <b>Prime Sponsor:</b> NIH National Institute of Diabetes, Digestive, and Kidney Diseases (NIDDKD)
<b>Microbiome and Severe Weight Dysregulation In Anorexia Nervosa Supplement To R01MH105684</b>	\$88,518	<b>Principal Investigator (PI):</b> Fodor, Anthony	Bioinformatics and Genomics	<b>Sponsor:</b> University of North Carolina at Chapel Hill (UNC-CH) <b>Prime Sponsor:</b> National Institutes of Health (NIH)

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<b>MPA Public Service Fellowship with Mecklenburg County Finance Department</b>	\$24,252	<b>Principal Investigator (PI):</b> Barth, Thomas	Political Science and Public Administration	<b>Sponsor:</b> Mecklenburg County Finance Department
<b>National Technical Assistance Center on Increasing Graduation and Improving Transition to Postsecondary Education and Careers for students with Disabilities</b>	\$378,000	<b>Principal Investigator (PI):</b> Fowler, Catherine	Special Education and Child Development	<b>Sponsor:</b> US Department of Education (DOED)
<b>Phase II CfM Industry Membership Funds</b>	\$45,000	<b>Principal Investigator (PI):</b> Aggarwal, Ishwar	Physics and Optical Science	<b>Sponsor:</b> All Other Business and Industry
<b>Smart Nucleic Acids Nanoassemblies Programmed to Operate in Living Systems</b>	\$27,250	<b>Principal Investigator (PI):</b> Afonin, Kirill	Chemistry	<b>Sponsor:</b> University of North Carolina System Office (UNC SysOff)
<b>The Center for Advanced Power Engineering Research (CAPER)</b>	\$150,000	<b>Principal Investigator (PI):</b> Mazzola, Michael	Energy Production and Infrastructure Center	<b>Sponsor:</b> Savannah River Nuclear Solutions <b>Prime Sponsor:</b> DOE Savannah River National Laboratory
<b>The Center for Advanced Power Engineering Research (CAPER)</b>	\$150,000	<b>Principal Investigator (PI):</b> Mazzola, Michael	Energy Production and Infrastructure Center	<b>Sponsor:</b> Duke Energy Corporation
<b>The Center for Advanced Power Engineering Research (CAPER)</b>	\$75,000	<b>Principal Investigator (PI):</b> Mazzola, Michael	Energy Production and Infrastructure Center	<b>Sponsor:</b> Dominion Energy
<b>TO #1: Advancing Concrete Pavement Technology Solutions - Recycling and Reuse of Waste Products</b>	\$65,000	<b>Principal Investigator (PI):</b> Cavalline, Tara	Engineering Technology and Construction Management	<b>Sponsor:</b> Iowa State University (ISU) <b>Prime Sponsor:</b> Federal Highway Administration (FHWA)
<b>Walking Through Carolina: An Outdoor Living Exhibit</b>	\$20,000	<b>Principal Investigator (PI):</b> Stokes, Ashli <b>Co-PI:</b> Gillman, Jeffrey	Communication Studies	<b>Sponsor:</b> North Carolina Humanities Council <b>Prime Sponsor:</b> National Endowment for the Humanities (NEH)