

10/1/20 - 12/31/20				
AWARD TITLE	AWARD AMOUNT	AWARD PI	SPONSOR	AWARD ADMIN DEPT
12th Annual NASA Robotic Mining Competition - Team Competition Grant	\$5,000.00	Browne, Aidan	North Carolina Space Grant Consortium (NC Space Grant)	Engineering Technology and Construction Management
49er Rocketry USLI Competition Experience Grant	\$5,000.00	Dahlberg, Jerry	North Carolina Space Grant Consortium (NC Space Grant)	Mechanical Engineering and Engineering Science
Air Force University Engineering Design Challenge	\$25,000.00	Browne, Aidan	DZYNE Technologies Incorporated (DZYNE)	Engineering Technology and Construction Management
AOF analysis in NC source water	\$60,000.00	Sun, Mei	North Carolina Policy Collaboratory	Civil and Environmental Engineering
Connector Awards for Solar Prize Round 2 Set! Competition.	\$1,500.00	Ebong, Abasifreke	DOE National Renewable Energy Laboratory (NREL)	Electrical and Computer Engineering
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	\$210,638.00	Essakiappan, Somasundaram	Department of Energy (DOE)	Energy Production and Infrastructure Center
Developing an Estimate of Needed Nutrient Load Reductions for Jordan Lake Using a Three-Dimensional Water Quality Model	\$117,396.00	Bowen, James	NCDENR Division of Water Resources (DWR)	Civil and Environmental Engineering
Development and Evaluation of Three-Phase Q-sync Technologies	\$319,640.00	Gafford, James	QM Power, Inc.	Energy Production and Infrastructure Center
Development of Course Materials for Massive Open Online Courses in Foundational Electromagnetics	\$70,000.00	Weldon, Kathryn	ANSYS, Inc.	Electrical and Computer Engineering
Enabling advanced electrode architecture through printing technique	\$351,970.00	Xu, Jun	Western Michigan University	Mechanical Engineering and Engineering Science
Energy data analytics	\$180,000.00	Hong, Tao	Duke Energy Corporation	Energy Production and Infrastructure Center
Establishing a Workforce Development Consortium for a Pilot AI-Cybersecurity Certification based National Training Program	\$502,838.00	Saqib, Fareena	Purdue University Northwest	Electrical and Computer Engineering
Evaluation of biochar as a multi-beneficial and cost effective soil amendment	\$229,733.00	Rice-Boayue, Jacelyn	North Carolina Department of Transportation (NCDOT)	Engineering Technology and Construction Management
Excitons and exciton-polaritons in novel organic-inorganic hybrids with sub-nano inorganic layers	\$32,190.00	Zhang, Yong	DOD DA Army Research Office (ARO)	Electrical and Computer Engineering
Full Scale Testing Program of Tindall T-Slab System	\$6,394.00	Braxtan, Nicole	Tindall Corporation	Civil and Environmental Engineering
Intelligent Power Stages	\$150,000.00	Parkhideh, Babak	DOE Oak Ridge National Laboratories	Energy Production and Infrastructure Center
LabWare Aerodynamic research.	\$124,322.00	Jenckes, Charles	LabWare, Inc.	Mechanical Engineering and Engineering Science
Load Capacity of Concrete Pile Sections	\$13,500.00	Smith, Benjamin	Geopier Foundation Company, Inc.	Engineering Technology and Construction Management
Marshall Research Phase V	\$15,000.00	Kamalasadan, Sukumar	Duke Energy Corporation	Energy Production and Infrastructure Center
Metrology for Additive Manufacturing: Technical Proposal	\$30,000.00	Evans, Christopher	DOC National Institute of Standards and Technology (NIST)	Center for Precision Metrology
NCEMC Solar Power and Net Load Forecasting	\$100,000.00	Hong, Tao	North Carolina Association of Electric Cooperatives (NCAEC)	Energy Production and Infrastructure Center
NCHRP 13-06A [RFP] Guide for the Formulation of Long-Range Plans and Budgets for Replacement of Highway Operations Equipment	\$29,942.00	Fan, Wei	NCSC Office of Research Innovation and Economic Development	Civil and Environmental Engineering
Non-contact dimensional inspection - Defect detection	\$123,600.00	Morse, Edward	Honeywell, Inc.	Mechanical Engineering and Engineering Science
Prize for American-Made Challenge (AMC) Connector Award	\$5,000.00	Ebong, Abasifreke	DOE National Renewable Energy Laboratory (NREL)	Energy Production and Infrastructure Center
Process for surface finish measurement in x-ray computed tomography	\$60,287.00	Smith, Stuart	Lawrence Livermore National Security	Mechanical Engineering and Engineering Science
Project Title: Optimal Reconfiguration and Resilient Control Framework for Real-Time Photovoltaic Dispatch to Manage Critical Infrastructure (ReDis-PV)	\$905,032.00	Kamalasadan, Sukumar	Department of Energy (DOE)	Energy Production and Infrastructure Center
QM Power - Motor Dynamometer Integration Technical Service	\$1,500.00	Gafford, James	QM Power, Inc.	Energy Production and Infrastructure Center
SBIR: SBIR Ph II: Testing Confocal Interferometric Probe for optical metrology	\$46,218.00	Evans, Christopher	OptiPro Systems	Mechanical Engineering and Engineering Science
SBIR: SBIR Phase II: Advanced Nanometer Class CMM	\$214,226.00	Evans, Christopher	OptiPro Systems	Mechanical Engineering and Engineering Science
Securing American Manufacturing (SAM) - Task Order GFY21 to Basic Ordering Agreement (BOA) 4100001085(IPF 19-0829)	\$410,000.00	Browne, Aidan	Consolidated Nuclear Security, LLC (CNS)	Engineering Technology and Construction Management
SoutheastCon 2021 Hardware Competition	\$5,000.00	Conrad, James	North Carolina Space Grant Consortium (NC Space Grant)	Electrical and Computer Engineering
Total	\$4,350,926.00			