



Monthly New Awards - February 2020

Al-Deek, Haitham

Wrong Way Driving
Central Florida Expressway Authority
\$230,000
College of Engineering and Computer Science

Catbas, Necati

A Cost-Effective On-Board Railway Track Condition Monitoring System by Using Sensor Fusion Technology
Transportation Technology Center, Inc.
\$38,182
College of Engineering and Computer Science

Cho, Hyoung Jin

Robinson Observatory Restoration Project
NASA Shared Services Center
\$1,000
College of Engineering and Computer Science

Chopra, Manoj

Florida - Georgia Louis Stokes Alliance For Minority Participation
FL A&M University
\$14,000
College of Engineering and Computer Science

Chow, Louis

High-Salinity Water Management Including Recovering of Lithium and Rare Metals Using Solar Energy
Savengy Technologies, LLC
\$20,000
College of Engineering and Computer Science

Dagley, Melissa

2020 Florida Engineering Education Conference
NASA Shared Services Center
\$1,995
College of Engineering and Computer Science

Das, Tuhin

Model-Based Systems Engineering and Control Co-Design of Floating Offshore Wind Turbines
U.S. Department of Energy
\$771,992
College of Engineering and Computer Science

Dickerson, Andrew

Tuning Liquid Jet and Splash Dynamics by Deformable and Heterogeneous Boundaries
National Science Foundation
\$394,839
College of Engineering and Computer Science

Dove, Adrienne | Colwell, Joshua

Exploring Electrostatic Regolith Interactions in Low-Gravity
NASA Shared Services Center
\$404,874
College of Sciences

Duranceau, Steven

Van Fleet and Providence Water Treatment Plant Tray Aeration Enhancements Evaluation
Polk County
\$143,236
College of Engineering and Computer Science

Elgohary, Tarek

Charged Particle Dynamics in the Lunar Environment
NASA Shared Services Center
\$70,000
College of Engineering and Computer Science

Emrich, Christopher

Assessing Equity in Disaster Recovery Funding
University of Iowa
\$97,142
College of Community Innovation and Education

Feng, Xiaofeng

Understanding and Tuning the Electrohydrogenation Mechanisms for Ambient Nitrogen Fixation
National Science Foundation
\$372,290
College of Sciences

Feng, Xiaofeng

Ambient Electrocatalytic Activation of Methane towards C2 Oxygenates
American Chemical Society
\$110,000
College of Sciences

Gazzillo, Paul

Inferring and Securing Software Configurations through Automated Reasoning
National Science Foundation
\$79,902
College of Engineering and Computer Science

Ghosh, Ranajay

Structure-Property on the Outside - The Extreme Mechanics of Tunable Exoskeleton Structures
National Science Foundation
\$500,001
College of Engineering and Computer Science

Hines, Rebecca | Azevedo, Roger | Dieker, Lisa

Preparation Through Residencies and Enhanced Partnerships

U.S. Department of Education

\$302,748

College of Community Innovation and Education

Hua, Kien

3-D Medical Image Reconstruction Software System for Time-of-Flight Positron Emission Tomography

FloridaMakes, Inc.

\$60,000

College of Engineering and Computer Science

Jha, Sumit Kumar

Attributions and Learning Dynamics based Adaptive Defense and Robustness Metric

Defense Advanced Research Projects Agency

\$244,000

College of Engineering and Computer Science

Kapat, Jayanta

Kapat Siemens Donation

Siemens Energy Inc.

\$100,000

College of Engineering and Computer Science

Kar, Aravinda | Kumar, Ranganathan

Laser-Assisted Silica Nanoparticle Deposition for Additive Manufacturing of Advanced Optics IRFlex

\$57,965

Center for Research and Education in Optics and Lasers

Kibler, Kelly

The Influence of Turbulence to Mass Transport in Complex Aquatic Habitats

National Science Foundation

\$112,213

College of Engineering and Computer Science

Labrecque, Ryan

Preparing High-Risk Inmates for Successful Reentry: Development and Evaluation of a Restrictive Housing Step Down Program in Oregon

Charles Koch Foundation

\$13,319

College of Community Innovation and Education

Lugo, Ramon

High resolution imaging of radio emissions stimulated by the Arecibo heating facility

Universidad Interamericana de PR, Inc.

\$46,750

Florida Space Institute

Moreto, William

2019-2020 UCF Student Support for the Orange County Sheriff's Office
Orange County Sheriff's Office
\$72,925
College of Community Innovation and Education

Nobles, Matt

A Multilevel Analysis of Hate Crime Commission Using NCVS and UCR Data
University of Alabama at Tuscaloosa
\$17,735
College of Community Innovation and Education

Peppler, Richard

2019 Culinary Medicine Course Support
Florida Beef Council
\$31,123
College of Medicine

Qi, Junjian

Deciphering Large-Scale Real Outage Data for Cascading Failure Analysis, Prevention, and Intervention
National Science Foundation
\$394,319
College of Engineering and Computer Science

Qu, Zhihua | Zhou, Qun

Unifying Optimization and Control: Data-Driven Adaptive Learning and Real-Time Decision Making
FloridaMakes, Inc.
\$141,666
College of Engineering and Computer Science

Rabelo, Luis

Smart and Holistic Agent Management System
National Science Foundation
\$50,000
College of Engineering and Computer Science

Renk, Kimberly

Central Florida Foundation - 100 Women Strong
Early Learning Coalition of Orange County
\$50,000
College of Sciences

Richardson, Martin | Bernath, Robert

Booz Allen Hamilton Testing
Booz Allen Hamilton, Inc.
\$114,503
Center for Research and Education in Optics and Lasers

Rohde, Kyle | Gerasimova, Yulia | Kim, Brian

Point-of-Care Detection of TB and NTM Pathogens with Fluorescent Deoxyribozyme Sensors and 3D-Printed, Battery Powered Device
National Institute of Allergy and Infectious Diseases
\$145,321
College of Medicine

Sadmani, A. H. M. Anwar

Removing Per- and Polyfluoroalkyl Substances Using Biosorption Activated Media
Environmental Conservation Solutions, LLC
\$23,967
College of Engineering and Computer Science

Santra, Swadeshmukul

Nano-Zinc Coated Urea: An Innovative Approach to Systemic Delivery of Zn-Micronutrient
International Fertilizer Development Center
\$30,000
NanoScience Technology Center

Sawyer, Ben D.

Sawyer Monotype Donation
Monotype Imaging, Inc.
\$3,157
College of Engineering and Computer Science

Schoenfeld, Winston

TEL Technologies Internship
TEL Technology Center, America, LLC
\$72,830
Center for Research and Education in Optics and Lasers

Schrimshaw, Eric

Exchange Sex and HIV Risk Among MSM Online
The Trustees of Columbia University
\$65,908
College of Medicine

Seigneur, Hubert

Technical Assistance Statement of Work to Ultrasonic
Ultrasonic Technologies, Inc.
\$14,913
Florida Solar Energy Center

Solihin, Yan

Persistent Memory Object Security
Office of Naval Research
\$228,850
College of Engineering and Computer Science

Stresau, Kurt

2019-2020 Florida Space Grant Consortium Hybrid Rocket Student Competition
Florida Space Grant Consortium
\$1,470
College of Engineering and Computer Science

Vaida, Mihai

Ultrafast Electron and Molecular Dynamics Investigations On 2D Nanostructured Photocatalytic
Materials for the Generation of Fuels from Renewable Sources
National Science Foundation
\$317,671
College of Sciences

Vela, Adan

Forecasting and Estimating the Impact of Severe Weather on Power Distribution Systems
Oak Ridge Associated Universities
\$50,000
College of Engineering and Computer Science

Walters, Joseph

PV Module Testing for Degradation
Florida Power & Light Company
\$80,841
Florida Solar Energy Center

Winston, Haley

Volunteer Florida Agreement
Volunteer Florida
\$17,582
Student Development and Enrollment Services

Xu, Yunjun

Distributed Co-Robots for Strawberry Harvesting
National Science Foundation
\$8,000
College of Engineering and Computer Science

Zhou, Qun

Solar Power Forecasting and NanoGrid Management System
Orlando Utilities Commission
\$74,500
College of Engineering and Computer Science