



Monthly New Awards – August 2018

Abdolvand, Reza

MEMS Plasmonic Infrared Scene Projector
Truventic LLC
\$266,253
College of Engineering and Computer Science

Barber, Sarah / Duncan, Neil Andrew

Phase II Archaeological Excavation at BR85 Cape Canaveral Air Force Station, Brevard County, Florida
UChicago Argonne, LLC
\$139,924
College of Sciences

Batarseh, Issa E / Brooker, R. Paul / Zhou, Qun

Highly Integrated Grid-Tied Multi-Port Power Module for PV and Storage
National Science Foundation
\$360,000
Florida Solar Energy Center

Beidel, Deborah Casamassa / Neer, Sandra M / Newins, Amie R

Trauma Management Therapy orientation/training
Naval Medical Center Portsmouth
\$12,000
College of Sciences

Bubriski, Anne M

Young Women Leaders Program
Wells Fargo Foundation
\$5,000
College of Arts and Humanities

Campins, Humberto

Characterizing Enigmatic Phaethon in the UV
Space Telescope Science Institute
\$16,485
College of Sciences

Chanda, Debashis

Superchiral Light Generation on Achiral Substrates for High Sensitive Detection of Chiral Molecules

National Science Foundation

\$359,869

NanoScience Technology Center

Chambers, Lisa / Steinmuller, Havalend E

Impacts of Vegetation Transition on Biogeochemical Cycling in Coastal Wetlands

UCF Foundation, Inc

\$500

College of Sciences

Chang, Ni-Bin / Fairey, Mr. Philip W / Gu, Lixing / Kapucu, Naim / Zheng, Qipeng (Phil)

Enabling large-scale adaptive integration of technology hubs to enhance community resilience through decentralized urban food-water-energy nexus decision support

National Science Foundation

\$281,654

College of Engineering and Computer Science

Chang, Zenghu

Collaborative Research: Probing Attosecond Charge Dynamics in Atoms and Molecules

National Science Foundation

\$70,000

College of Optics and Photonics

Chernyak, Leonid

Electrical mitigation of radiation-induced defects in AlGaIn/GaN photovoltaic detectors

National Science Foundation

\$325,014

College of Sciences

Chini, Michael Robert Marino / Turkowski, Volodymyr

Probing strong electronic correlations in ferroelectrics and multiferroics through high-order harmonic spectroscopy and first-principles calculations

National Science Foundation

\$364,842

College of Sciences

Davila, Victor M / Clercx, Byron D.

Hebni Nutrition Book/ToolKit

Hebni Nutrition Consultants, Inc

\$84,900

College of Arts and Humanities

DeMara, Ronald F / Campbell, Laurie OMalley / Chen, Zhongzhou / Dagley, Melissa D /

Hartshorne, Charles R / Hernandez, Florencio E

Synthesis and Design Workshop: Digitally-Mediated Team Learning

National Science Foundation

\$99,999

College of Engineering and Computer Science

Enyioha, Chinwendu

Resource Management with Limited Communication in Cyber-Physical Networks
Southeastern Center for Electrical Engineering Education
\$25,500
College of Engineering and Computer Science

Fang, Jiyu / Chai, Xinqing

J-aggregate nanotube integrated hydrogel sheets for sensing the release of dopamine from cells
National Science Foundation
\$341,521
Advanced Materials Processing and Analysis Center

Fernandez-Valle, Cristina M / Soulakova, Julia N

Preclinical Testing of PI3K Inhibitors for Vestibular Schwannomas
National Institute on Deafness and Other Communication Disorders
\$3,096,432
College of Medicine

Gilbertson, Timothy A

Fatty Acid Receptors in Gustation
National Institute on Deafness and Other Communication Disorders
\$314,083
College of Medicine

Hawthorne, Timothy Lee

Collaborative Research: The role of a keystone pathogen in the geographic and local-scale ecology of eelgrass decline in the eastern Pacific
National Science Foundation
\$318,963
College of Sciences

Hoffman, Phil

Community Service Grant
Florida Department of Education
\$307,447
Division of Strategy, Marketing, Communications, and Admissions

Hoffman, Phil

CPB Education Innovation Grant
Corporation for Public Broadcasting
\$10,000
Division of Strategy, Marketing, Communications, and Admissions - WUCF

Hoffman, Phil

General Programming Support for WUCF TV 2018-2019
Florida Department of State
\$9,223
Division of Strategy, Marketing, Communications, and Admissions

Kapat, Jayanta S

Evaluation of Blade Cooling Hole Performance through Velocimetry Techniques

Siemens Energy, Inc.

\$15,258

College of Engineering and Computer Science

Kassab, Alain J

Multiscale Hemodynamics Investigation of a Surgical Manoeuvre to Reduce Stroke Risk in Left Ventricular Assist Devices

American Heart Association

\$300,000

College of Engineering and Computer Science

Khajavikhan, Mercedeh

Topological Phenomena in Active Photonic Platforms

Defense Advanced Research Projects Agency

\$750,000

College of Optics and Photonics

Khajavikhan, Mercedeh

DURIP: Acquisition of an Advanced Plasma Etcher for III-V Nano-structures

US Army Contracting Command

\$250,000

College of Optics and Photonics

King, Joshua Riley / Ohyama, Leo

Thief ant (Hymenoptera:Formicidae:Solenopsis) ecology in Florida's high pine sandhills

UCF Foundation, Inc

\$1,000

College of Sciences

Kokoouline, Viatcheslav

Fundamental processes in formation, dynamics, and destruction of molecular ions in cold plasma and ion traps

National Science Foundation

\$72,524

College of Sciences

Li, Guifang

Acquisition of Coherent Transceivers

US Army Contracting Command

\$93,000

College of Optics and Photonics

Li, Qifeng

Collaborative Research: Stability, security and emergency control for reconfigurable networked microgrids

National Science Foundation

\$99,994

College of Engineering and Computer Science

Mansfield, Katherine / Seney, Erin E

Donations to the UCF MTRG for the purchase of field supplies from Biomark
Friends of Carr Refuge
\$5,000
College of Sciences

Mansfield, Katherine / Stahelin, Gustavo David

Next generation- sequencing for sea turtle hybrid identification in Brazil
UCF Foundation, Inc
\$1,000
College of Sciences

Mauer, Barry J / Janz, Bruce B

Flickering Landscapes: Migrations and the Moving Image - 2019
Various
\$1
College of Arts and Humanities

Mayo, Talea Lashea

Early Career Research Fellowship: Talea Mayo
The National Academies of Sciences, Engineering, and Medicine
\$76,000
College of Engineering and Computer Science

Metcalf, David S / Allen, Christine / Andrews, Anna / Eakins, Michael J. / Hamilton, Angela Catherine

Models, Standards, and Data Transfer for Next Generation Medical Simulators
Naval Air Warfare Center Training Systems Division
\$450,000
Institute for Simulation and Training

Metcalf, David S / Eakins, Mr. Michael J. / Hamilton, Angela Catherine

VR Pilot Avatar
Boeing Company
\$70,000
Institute for Simulation and Training

Mucciolo, Eduardo R

Tensor Network Methods for Quantum Simulations
National Science Foundation
\$109,222
College of Sciences

O'Neal, Thomas P

Florida's Companies to Watch
Various
\$1
College of Engineering and Computer Science

Orlowski, Marissa A.

2018 Tampa Bay Hotel Industry Compensation Analysis
Hillsborough County Hotel and Motel Association
\$7,500
Rosen College of Hospitality Management

Raustad, Richard A

Trane Trace 3D Plus Software Development Support
S.E.I Associates
\$110,985
Florida Solar Energy Center

Ridderstaat, Jorge / Rivera, Manuel A

Optimizing ATA's marketing and promotion budget
Aruba Tourism Authority
\$5,500
Rosen College of Hospitality Management

Rohde, Kyle

Synthesis of natural product scaffold selectively active against dormant Mycobacterium tuberculosis
University of Toledo
\$163,900
College of Medicine

Sadiq, Abdul-Akeem

Enhancing Community Resilience to Floods: A Theoretical Framework of Community Participation in Federal Voluntary Programs
National Science Foundation
\$88,492
College of Community Innovation and Education

Santra, Swadeshmukul / NAM, Boo Hyun

Proof of Concept for a Strontium based formulation for use as concrete surface hardening agent
TradeMark Nitrogen Corp.
\$11,176
College of Sciences

Santra, Swadeshmukul

Integrated management of bacterial diseases of fruiting vegetables in Ontario
University of Guelph
\$6,965
College of Sciences

Shah, Mubarak A / Bagci, Ulas / Neider, Mark

II-New: Cognitive Mechanisms and Computational Modeling of Gaze Control During Scene Free Viewing, Visual Search, and Daily Tasks
National Science Foundation
\$249,277
Center for Research in Computer Vision

Snyder, Amanda J.

Creating Civil Learning Curricula at UCF
Association of American Colleges and Universities
\$500
College of Arts and Humanities

Steiner, Mark W

CECS I-Design Program / 2018
Various
\$15,001
College of Engineering and Computer Science

Sugaya, Kiminobu

Evaluation of serum free media on C2C12 and MG1 skeletal muscle cells
The Good Food Institute
\$6,210
College of Medicine

Sun, Qiyu

Mathematical Foundation for Signal Processing on Spatially Distributed Networks (ID: 1063921)
National Science Foundation
\$195,231
College of Sciences

Toyne, Jennifer Marla

Stable Isotope Analysis (2018)
Various
\$1,000
College of Sciences

Viana, Felipe

O&G equipment and production systems reliability and performance optimization through cloud computing and advanced physics-based and machine learning methods
BHGE
\$410,000
College of Engineering and Computer Science

Vieira, Robin K / Fenaughty, Karen F / Parker, Danny S / Raustad, Richard A

Orlando Utilities Commission: Conservation and Sustainability Program Consultant
Orlando Utilities Commission
\$98,022
Florida Solar Energy Center

Welch, Greg / Anderson, Mindi A / Bruder, Gerd / Turgut, Damla

Medium: Collaborative Research: Augmented Reality Agents with Pervasive Awareness, Appearance, and Abilities
National Science Foundation
\$217,701
College of Nursing

Willenberg, Bradley Jay / Hines, Robert Brooks / Seal, Sudipta

New Nanoceria-Based Mosquito Pesticides
Florida Department of Agriculture and Consumer Services
\$88,472
College of Medicine

Wisniewski, Pamela

Leveraging community oversight to enhance collective efficacy for privacy and security
National Science Foundation
\$188,272
College of Engineering and Computer Science

Wisniewski, Pamela

A Community-based Approach to Co-Managing Privacy and Security for Mozilla's Web of Things
Mozilla
\$45,000
College of Engineering and Computer Science

Wu, Annie S

Small: Variation and self-organization in multi-agent systems
National Science Foundation
\$433,705
College of Engineering and Computer Science

Yu, Xiaoming / Kar, Aravinda

Laser Beam Engineering for high speed perforation of composite materials
Elsner Engineering Works
\$375,000
College of Optics and Photonics

Yuksel, Murat

Stable and Efficient Peering Through Internet Exchange Points
National Science Foundation
\$163,500
College of Engineering and Computer Science