



Monthly New Awards – August 2022

Abdolvand, Reza

Gift Funding for Ultra-Stable Piezo-On-Si Resonator Technology for RTC and TCXO
Texas Instruments Incorporated
\$45,000
College of Engineering and Computer Science

Ahmed, Kareem

Fast Response and Reliable Ignition Assistance System for Multi-fuel Capable Engines
Creare LLC
\$75,000
College of Engineering and Computer Science

Amezcuia Correa, Rodrigo

Diode Pumped High Power Raman Fiber Lasers
U.S. Army Contracting Command
\$199,825
College of Optics and Photonics

Andraka-Christou, Barbara

Exploring Attitudes and Policies Toward Medical Marijuana In Dependency Courts
University of Massachusetts Chan Medical School
\$10,000
College of Community Innovation and Education

Azevedo, Roger

Connecting the Center for Learning and Living with Artificial Intelligence to CERES
University of Oulu
\$304,595
School of Modeling, Simulation, and Training

Bartee, RoSusan

School Leadership Micro-Credential Series: Driving Principal Leadership for Academic Excellence
The School District of Osceola County
\$374,336
College of Community Innovation and Education

Beazley, Melanie

Boggy Creek MST Project
Geosyntec Consultants, Inc.
\$3,555
College of Sciences

Beazley, Melanie

Orange County Environmental Water Study 2021-2022
Orange County Department of Environmental Protection
\$9,020
College of Sciences

Beidel, Deborah

Orange County Juror Project
Orange County Health Services
\$90,090
College of Sciences

Bochenek, Grace

Microelectronics Design and Production Digital Twin
Osceola County
\$35,000
School of Modeling, Simulation, and Training

Brisset, Julie | Bennett, Christopher | Lyakh, Arkadiy

ORIGINS: Photothermal Spectroscopy for Planetary Sciences
NASA Shared Services Center
\$449,057
Florida Space Institute

Burns, Terri

Centers for Autism and Related Disabilities
Florida Department of Education
\$2,197,837
College of Health Professions and Sciences

Caulkins, Bruce | Martin, Glenn | Mondesire, Sean

Cyber Range Feasibility Study
University of South Florida
\$249,678
School of Modeling, Simulation, and Training

Chen, Jiannan | Jurca, Titel

Treatment Strategies for the Clogging of Landfill Systems with Black Sticky Material
S2L Incorporated
\$22,374
College of Engineering and Computer Science

Damodaran, Anish | Bennett, Christopher | Manoharan, Periasamy | Perera, Benetge

Enhancing and Nurturing Careers in Astronomy with New Training Opportunities
National Science Foundation
\$234,419
Florida Space Institute

Del Barco, Enrique | Assefzadeh, Mahdi | Chini, Michael | Peale, Robert

Broad-Band THz Spectroscopy System Upgrade for Research and Student Training in High-Frequency Electronics and Spintronics
U.S. Army Contracting Command
\$367,600
College of Sciences

Dombrowski, Matthew

Florida Virtual School Collaboration for SEL Curriculum Design - Fall 2022
Florida Virtual School
\$4,774
College of Arts and Humanities

Eikenberry, Stephen

Graduate Student Participation and CCD Procurement for the Original PolyOculus Array
National Science Foundation
\$173,438
College of Optics and Photonics

Eluru, Naveen

Incorporating New Mobility Options Into Travel Demand Forecasting and Modeling
National Academy of Sciences
\$125,000
College of Engineering and Computer Science

Ewetz, Rickard

Towards Robust Intelligent Systems Using Explainability
Lockheed Martin Corporation
\$136,364
College of Engineering and Computer Science

Fiore, Stephen

Annual Science of Team Science Conference
U.S. Army Contracting Command
\$26,325
School of Modeling, Simulation, and Training

Fu, Yanjie | Zhang, Wei

Deep Interactive Reinforcement Learning for Self-Optimizing Feature Selection
National Science Foundation
\$499,985
College of Engineering and Computer Science

Garibay, Ozlem | Garibay, Ivan | Mantzaris, Alexander

Influence Cascades Ecosystem: Entropy-based Characterization and Modeling of Influence Patterns and Pathways Across Traditional and Social Media
Defense Advanced Research Projects Agency
\$500,000
College of Engineering and Computer Science

Glebov, Leonid | Divliansky, Ivan

PTR Glass Improvement

IPG Photonics

\$270,000

College of Optics and Photonics

Goodwin, Ryan

Promoting UCF Student Success and Wellbeing for Minoritized Populations

Arizona State University

\$10,000

Student Learning and Academic Success

Hagan, David

Education & Training Optics and Photonics Conference 2023

Various

\$50,000

College of Optics and Photonics

Hill, Ethan

The Chronic Effects of Low-Load Blood Flow Restriction and Standard of Care Resistance

Exercise on Muscle and Neuromuscular Function in Patients with Multiple Sclerosis

AdventHealth Formerly Florida Hospital Medical Center

\$27,877

College of Health Professions and Sciences

Joe, Richelle

Removing Obstacles to HIV Prevention for Black Women in Orange County, Florida

Rollins College

\$64,763

College of Community Innovation and Education

Kang, Myungkoo

Data Compilation for GRIN Optical Design Study

QinetiQ, Inc.

\$50,000

College of Optics and Photonics

Kapat, Jayanta

Data Analytics and Fault Diagnostics in Mechanical Systems

Mantrapoynt, Inc

\$47,918

College of Engineering and Computer Science

Klonoff, Elizabeth

Donation from Meta to Support Research About Racial Equity on Social Media

Meta Platforms, Inc.

\$50,000

Office of Research

Kolpashchikov, Dmitry

NAND Gate Based Integrated DNA Circuits
National Science Foundation
\$363,009
College of Sciences

Kuebler, Stephen

Volumetric Meta-Lenses
U.S. Air Force Research Laboratory
\$150,000
College of Optics and Photonics

Kushima, Akihiro

First Principles Simulation to Identify the Li Ion Diffusivity In Spinel-Like Disordered Rocksalt Cathode
Honda R&D Co., LTD
\$27,185
College of Engineering and Computer Science

Lyakh, Arkadiy

Damage-Free High Power Emission from Indium Phosphide-Based Solid State Waveguides in the Long Wave Infrared
IRGlare LLC
\$30,000
NanoScience Technology Center

Mangum, Colby

Optimizing Clinical Outcomes for Patients with Patellofemoral Pain Using Strength Training Rehabilitation Incorporating Power Exercises
University of Connecticut
\$64,672
College of Health Professions and Sciences

Metzger, Philip | Dove, Adrienne

Measuring Particle Sizes with Fine Spatial and Temporal Resolution in Lander Plume-Induced Ejecta Clouds
Truventic LLC
\$64,799
Florida Space Institute

Muniz, Cyndia

CREAR Futuros Peer Mentoring Program
Hispanic Federation, Inc.
\$52,000
Diversity and Inclusion

Nalbone, Lisa

Re-Membering Puerto Rican Arts and Culture Five Years After María
Florida Humanities
\$5,000
College of Arts and Humanities

Pinilla-Alonso, Noemi

Discovering The Composition of the Trans-Neptunian Objects, Icy Embryos for Planet Formation

Space Telescope Science Institute

\$61,624

Florida Space Institute

Popolan-Vaida, Denisia

Mechanistic Understanding of the Criegee Intermediates Reaction Network in Atmospheric and Combustion Systems

U.S. Department of Energy

\$200,000

College of Sciences

Rabelo, Luis

Project to Encourage STEM in the State of Durango-Mexico – Fall 2022

Power Division Incorporated

\$12,459

College of Engineering and Computer Science

Raghavan, Seetha

NASA Minds Prize Money

Secor Strategies LLC

\$3,000

College of Engineering and Computer Science

Raustad, Richard

Trane Trace 3D Plus Software Development Support Task Order #6

S.E.I Associates

\$121,800

Florida Solar Energy Center

Richardson, Kathleen | Gaume, Romain

U-Win Project-Renewal Year 2

Lockheed Martin Missiles and Fire Control

\$47,619

College of Optics and Photonics

Richardson, Martin

High Intensity Laser Initiatives in Support of HILI IRAD

L3Harris Technologies Integrated Systems

\$170,000

College of Optics and Photonics

Richardson, Martin | Cook, Justin | Kerrigan, Haley

Exploration of new laser-plasma domains

U.S. Air Force Office of Scientific Research

\$196,429

College of Optics and Photonics

Richardson, Martin | Kerrigan, Haley

Thin Film Coatings and Substrate Metrology for DE Applications
American Center for Optics Manufacturing, Inc.
\$125,000
College of Optics and Photonics

Rizvi, Ali

A Non-Interventional Study Providing Insights Into the Use of Finerenone in a Routine Clinical Setting
Bayer Corporation
\$121,246
College of Medicine

Rozeck, David

First Responder Toolkit
Florida Agricultural and Mechanical University
\$272,925
College of Sciences

Rubenstein, Alex

Effects of Revised Sleep Architecture Following College Graduates' Transition Into Full-Time Employment
Regents of the University of Minnesota
\$6,500
College of Business Administration

Schoenfeld, Winston

FloRDA Conference Award
Various
\$1,500
Office of Research

Skukauskaite, Audra

Ethnography in the Lemelson-MIT 2022 Student Research Program
Massachusetts Institute of Technology
\$19,900
College of Community Innovation and Education

Song, Zixia

Coloring Graphs with Forbidden Structures and Investigations Related to Ramsey Theory
National Science Foundation
\$179,999
College of Sciences

Stresau, Kurt

NASA Minds Prize Money
Secor Strategies LLC
\$5,500
College of Engineering and Computer Science

Vasu Sumathi, Subith

High-Efficiency Mixing Controlled Compression Ignition Combustion of Propane DME Blends
University of Wisconsin-Madison
\$152,696
College of Engineering and Computer Science

Walters, Lori | Kider Jr, Joe

Humanizing Digital Twin Environments
National Endowment for the Humanities
\$147,405
School of Modeling, Simulation, and Training

Yang, Yang

Fundamental Understanding of Catalyst-Support Interactions towards Electrochemical C–H
Bond Activation of Methane Under Ambient Conditions
American Chemical Society
\$110,000
NanoScience Technology Center

Yang, Yang

LiAl-based Cathodes for Li-O₂ Batteries: A Computational Study
UChicago Argonne, LLC / Argonne National Laboratory
\$60,000
NanoScience Technology Center