



Monthly New Awards – October 2022

Ahmed, Kareem

High-Performance Rotating Detonation Rocket Engine
NASA Shared Services Center
\$50,000
College of Engineering and Computer Science

Ahmed, Kareem

High Energy Pulses for Robust Scramjet Ignition
Create, LLC
\$45,400
College of Engineering and Computer Science

Aldarondo-Jeffries, Michael

Ronald E. McNair Postbaccalaureate Achievement Program
U.S. Department of Education
\$267,841
Student Learning and Academic Success

Al-Deek, Haitham

CFX Wrong-Way Data Collection, Reporting, And Resolving of Wrong-Way Driving Alerts
From CFX Exit Ramps And Mainline Locations
Central Florida Expressway Authority
\$237,000
College of Engineering and Computer Science

Azarian, Taj

A Cross-Sectional Study to Evaluate Pneumococcal Carriage Among Native Americans in the
Southwest in the Era of COVID-19
Johns Hopkins University
\$58,805
College of Medicine

Bochenek, Grace | Martin, Glenn | Mondesire, Sean | Reiners, Dirk | Smith, Eileen

BBBRC - NeoCity - Phase 2
U.S. Department of Commerce, Economic Development Administration
\$8,801,540
School of Modeling, Simulation, and Training

Bradley, Eric

A Study of the Electrical and Accretion Properties of Levitated Dust Grains for Applications to NASA Missions, Planetary and Astrophysical Processes
NASA Shared Services Center
\$66,000
Florida Space Institute

Brisset, Julie

The International Pulsar Timing Array
West Virginia University Research Corporation
\$539,621
Florida Space Institute

Britt, Daniel

Compressed Regolith Pathways and Landing Pads
Cislune, Inc.
\$69,862
College of Sciences

Ceballos, Marjorie | Mihai, Florin | Nutta, Joyce | Zygouris-Coe, Vassiliki

Project English-Learner Infused Training and Experience
U.S. Department of Education
\$416,602
College of Community Innovation and Education

Cook, Jennifer

Ready to Learn Neighborhood Planning Project
Corporation for Public Broadcasting
\$10,000
WUCF TV

Coudray, Makella

Sexually Transmitted Infection Testing Risk and Prevention among Trans Women
National Institute on Minority Health and Health Disparities
\$126,630
College of Medicine

Crawford, Kaitlyn | Mukhopadhyay, Kausik

On Wireless Physiological Monitoring for Assessing Heat Stress Over Extended Periods
Federal Emergency Management Agency
\$1,500,000
College of Engineering and Computer Science

Cruz-Neira, Carolina | Reiners, Dirk

Eye Tracking and Gaze-Directed User Interaction
Lockheed Martin Corporation
\$151,644

College of Engineering and Computer Science

Divliansky, Ivan

Generating and Analyzing Laser Mode Constellations Using Passive Optical Elements

L3Harris Technologies, Inc.

\$17,500

College of Optics and Photonics

Dove, Adrienne | Colwell, Joshua

Design and Development of Vacuum Chambers for Suborbital Lunar Flight Campaigns

NASA Shared Services Center

\$112,372

College of Sciences

Duranceau, Steve | Beazley, Melanie

Hodge Street Water Treatment Facility Process Operations Assessment

Polk County

\$114,500

College of Engineering and Computer Science

Elgohary, Tarek

On-Orbit Operations and Mission Planning in Minutes, Not Hours

MicrosurgeonBOT, Inc.

\$74,999

College of Engineering and Computer Science

Ewetz, Rickard

Towards Robust Intelligent Systems Using Explainability

UCF Office of Research and Florida High Tech Corridor Council

\$75,000

College of Engineering and Computer Science

Goodwin, Ryan

University of Central Florida Parent Dream Academy

U.S. Department of Education

\$500,000

Student Learning and Academic Success

**Diaz, Desiree | Anderson, Mindi | Chapple, Reshawna | Eckhoff, Dawn | Gonzalez, Laura |
Guido-Sanz, Francisco | Ng, Boon Peng | Peralta, Heather**

Nurse Education Practice Quality Retention Simulation Education Training/ Public Health
Simulation-Infused Program

Health Resources and Services Administration

\$495,678

College of Nursing

Guzman, Andrea | Diaz, Desiree | Muniz, Cyndia | Weishampel, John
Educating Nurses for Engagement, Research, Mentoring Excellence & Reinforcing
Interpretation Access
U.S. Department of Education
\$576,882
Diversity and Inclusion

Horan, Kristin | Jex, Steve | Mejia, Cynthia | Shoss, Mindy
Age-Inclusive Guidance on Employees for Supervisors
Centers for Disease Control and Prevention
\$45,198
College of Sciences

Karalidi, Theodora
Catch the Waves - A Machine Learning Approach to Map Brown Dwarf and Imaged Exoplanet
Atmospheres in 3D
National Science Foundation
\$416,532
College of Sciences

Kettles, Colleen
Flexible Load Adaptation Training for Energy Services Professionals
The Association of Energy Services Professionals
\$30,000
Florida Solar Energy Center

King, Joshua
Synergistic Impacts of Widespread Stressors on Threatened, Endangered, and At-Risk Species
on Department of Defense Lands of the Southeastern U.S.
U.S. Army Corps of Engineers
\$75,000
College of Sciences

Lee, Woo Hyung
A Biopolymer-Based Simple and Reagentless Electrochemical Manganese Check in Water
Metawater Company Ltd.
\$22,500
College of Engineering and Computer Science

Lewis, Kristy | Berry, Andrea | Kight, Erica | Sandoval, Jennifer | Taub, Michelle
The UCF Gulf Scholars Program
National Academy of Sciences
\$45,729
College of Sciences

Little, Mary | Edwards, Oliver | Slanda, Dena

Connecting Enhanced Networks to Reach All Learners
U.S. Department of Education
\$250,000
College of Community Innovation and Education

Logue, CarolAnn Dykes

Downtown Economic Gardening Technical Assistance Program
City of St Cloud
\$16,500
Business Incubation Program

Lyakh, Arkadiy

Monolithic Dual-Band Quantum Cascade Laser - Phase II
IRGlare, LLC
\$50,000
NanoScience Technology Center

Lyons, Amelia | Gannon, Barbara | Giroux, Amy

UCF Veterans Legacy Program Institute
U.S. Department of Veterans Affairs
\$368,582
College of Arts and Humanities

Martin, Glenn

Low-Latency, High-Bandwidth Expeditionary Mobile Data Networks for Support Future Live
Training Simulation Capabilities
Titenn, Inc.
\$99,966
School of Modeling, Simulation, and Training

Masyada, Stephen | Spinale, Christopher

Bay County Service Agreement
Bay County School Board
\$20,000
College of Sciences

Metcalf, David

Time & Materials Contract
U.S. Nuclear Regulatory Commission
\$158,000
School of Modeling, Simulation, and Training

Metcalf, David

AR/VR Gaming Scenarios for Haptic Gloves
Consolidated Nuclear Security LLC
\$74,869

School of Modeling, Simulation, and Training

Pattanaik, Sumanta

Material Modeling for Realistic Rendering

Activision

\$15,000

College of Engineering and Computer Science

Pinilla-Alonso, Noemi

Pluto's Climate System with JWST

Space Telescope Science Institute

\$30,867

Florida Space Institute

Reinhart, Debra | Chen, Jiannan

Life-Cycle Assessments of Residential Curbside Collection Programs for Recycling Quality Improvement

University of Florida Board of Trustees

\$57,178

College of Engineering and Computer Science

Renshaw, Kyle

C-DESST - HEL Targeting Sensor Development

U.S. Army Contracting Command

\$4,102,874

College of Optics and Photonics

Richardson, Kathleen

UWIN 2022

UCF Office of Research & Florida High Tech Corridor Council

\$25,000

College of Optics and Photonics

Richardson, Kathleen | Gaume, Romain

Calcium Lanthanum Sulfide Durable Windows & Optics

UCF Office of Research & Florida High Tech Corridor Council

\$60,000

College of Optics and Photonics

Richardson, Kathleen | Gaume, Romain

Thermal Lensing-Free Chalcogenide Windows

Triton Systems, Inc.

\$53,958

College of Optics and Photonics

Ross, Jerry

National Entrepreneur Center Collective Impact Initiative
Wells Fargo Foundation
\$20,000
National Entrepreneurial Center

Santra, Swadeshmukul
NanoFlorida Conference – Registration Fees
Various
\$1
NanoScience Technology Center

Santra, Swadeshmukul
NanoFlorida Conference – Donations
Various
\$1
NanoScience Technology Center

Solihin, Yan
Investigating the Feasibility of Providing Secure GPU Enclaves
Lockheed Martin Missiles and Fire Control
\$47,619
College of Engineering and Computer Science

Sonne, Jeffrey
Florida Building Code, 8th Edition Integrated Draft Review
Florida Department of Business and Professional Regulation
\$25,568
Florida Solar Energy Center

Southwell, Amber
Extracellular Vesicles as Non-Invasive Biomarkers for Huntington Disease Progression and
Huntingtin Lowering Therapy
Huntington's Disease Society of America
\$75,000
College of Medicine

Stangle, Kimberly
Federal and State Technology Partnership Program FY22
Small Business Administration
\$125,000
Florida High Tech Corridor Council

Stangle, Kimberly
Raising Awareness of The Corridor's Research and Innovation Support for Florida Businesses
Duke Energy Foundation
\$20,000

Florida High Tech Corridor Council

Stangle, Kimberly

2023 EnergyTech University Prize Regional Convener

U.S. Department of Energy

\$5,000

Florida High Tech Corridor Council

Sun, Patrick | Chen, Jiannan

An Efficient Landfill Surveying Method for Surface Emissions Monitoring and Cover Integrity Inspection

University of Florida Board of Trustees

\$73,174

College of Engineering and Computer Science

Taliaferro, Lindsay

Addressing Suicide Risks Among Ethno-Racial Minority Adolescents

Regents of the University of Minnesota

\$14,107

College of Medicine

Tetard, Laurene

Towards Deterministic Defect Nanomanipulation Guided by In Operando Monitoring

Gordon and Betty Moore Foundation

\$1,250,000

NanoScience Technology Center

Turner, Suzette

University of Central Florida CCAMPIS Project

U.S. Department of Education

\$1,224,810

Student Development and Enrollment Services

Vasu Sumathi, Subith

Studies of Energetic Systems: Experiments and Modeling

U.S. Air Force Office of Scientific Research

\$337,783

College of Engineering and Computer Science

Vasu Sumathi, Subith

Novel Experience Geared to NASA Engineering Design Challenges

NASA Shared Services Center

\$141,359

College of Engineering and Computer Science

Vela, Adan

Understanding Transition of Political Discourse to Election-Motivated Violent Extremism
Board of Regents of the University of Nebraska
\$204,686
College of Engineering and Computer Science

Withers, Charles

Florida Energy Investment Collaborative
Florida Department of Agriculture and Consumer Services
\$250,000
Florida Solar Energy Center

Xu, Mengyu | Ni, Liqiang | Poudyal, Chudamani

Actuarial Science Student Training with Extracurricular Projects
Casualty Actuaries of the Southeast
\$1,500
College of Sciences