



Monthly New Awards – September 2023

Abdolvand, Reza | Banerjee, Parag | Jiang, Tengfei

Building A Diverse Talent Pipeline in Semiconductor Manufacturing Through a Comprehensive Degree Program Development

Intel Corporation

\$150,000

College of Engineering and Computer Science

Awan, Shaheen

Vital Capacity & Airflow Measurement for Voice Evaluation: A Vortex Whistle System

National Institute on Deafness and Other Communication Disorders

\$656,830

College of Health Professions and Sciences

Azevedo, Roger

Detection and Remediation of Scientific Misconceptions Using Systems Thinking Approaches in an Interactive Simulation of Infectious Disease

University of Idaho

\$104,352

Office of Research

Barber, Sarah | Duncan, Neil | Groff, Amanda | Wheeler, Sandra | Zavodny, Emily

Task 1: Phase I/II Testing Support at the Penny Site, And Task 2: Phase I/II Testing Support at the NOTU Site

UChicago Argonne, LLC / Argonne National Laboratory

\$240,058

College of Sciences

Batarseh, Issa

SmartPower Converter

Protium Power Systems, Inc.

\$77,961

College of Engineering and Computer Science

Burke, Shawn

Smart Team Assembly

US Army Contracting Command

\$199,174

School of Modeling, Simulation, and Training

Chandia Viano, Nataly

PASS: Fulbright Pre-Academic Program

Institute of International Education

\$279,042

UCF Global

Chakrabarti, Debopam

Synthetic Studies and Antimalarial Activities of Bastimolides and Related Polyketides

University of Iowa

\$11,288

College of Medicine

Chen, Jiannan | Reinhart, Debra

Encouraging Better Curbside Recycling Behaviors and Improvement of the Cart-Tagging Programs

University of Florida Board of Trustees

\$51,770

College of Engineering and Computer Science

Chernyak, Leonid

Studies Of Radiation Impact and Electron Injection on Minority Carrier Transport in N- and P-Type Ga₂O₃

United States-Israel Binational Science Foundation

\$32,106

College of Sciences

Cook, Jennifer

FY 2024 General Program Support- FL DOS

Florida Department of State

\$102,448

WUCF TV

Cook, Jennifer

Ready to Learn Learning Neighborhoods - Cohort 3 (Phase II)- 2023-2024

Corporation for Public Broadcasting

\$75,000

WUCF TV

Cook, Jennifer

Be My Neighbor Day 2024

The Fred Rogers Company

\$10,000

WUCF TV

Ehrhart, Mark

Aligning Facility Leadership and Climate to Advance Mental Health Services Integration In Malawi

University of North Carolina at Chapel Hill

\$67,044

College of Sciences

Elgohary, Tarek

Investigating the Fusion of Model-Based and Data-Driven Methods for Uncertainty Quantification in

Cislunar Space Domain Awareness

US Air Force Office of Scientific Research

\$350,000

College of Engineering and Computer Science

Elgohary, Tarek | Shah, Mubarak

Rapid, Accurate, and Robust Predictions and Tracking for Domain Awareness

Lockheed Martin Corporation

\$136,364

College of Engineering and Computer Science

Elgohary, Tarek | Shah, Mubarak

Rapid, Accurate, and Robust Predictions and Tracking for Domain Awareness

UCF/Office of Research & Commercialization/Florida High Tech Corridor Council

\$68,182

College of Engineering and Computer Science

Ewetz, Rickard

Collaborative Research: FMITF: Track I: Synthesis and Verification of In-Memory Computing Systems

Using Formal Methods

National Science Foundation

\$250,000

College of Engineering and Computer Science

Ewetz, Rickard

Mobilizing the Emerging Diverse AI Talent (MEDAL) Through Design and Automated Control of Autonomous Scientific Laboratories

US Department of Energy

\$200,000

College of Engineering and Computer Science

Fernandez, Yan

Detecting Water on M-Type Asteroids

Space Telescope Science Institute

\$3,969

College of Sciences

Garibay, Ivan | Chen, Chen | Cruz-Neira, Carolina | Eilen, Daniel | Ford, Cameron | Georgiopoulos, Michael | Guzman, Andrea | Heinrich, Mark | Li, Guifang | Logue, CarolAnn Dykes | Lynch, Michael | O'Neal, Thomas | Rawat, Yogesh Singh | Rodriguez, Oscar | Schoenfeld, Winston | Shah, Mubarak | Shtrom, Svetlana | Willard, Cassi

From Research to Impact, Building the Translational Capacity of UCF's Innovation Ecosystem

National Science Foundation

\$5,873,888

College of Engineering and Computer Science

Karalidi, Theodora

Exploring Variability in the Atmospheres of Imaged Giant Exoplanets and Brown Dwarfs

NASA Shared Services Center

\$49,835

College of Sciences

Kider Jr, Joe | Laviola II, Joseph | Redmon, Maria | Walters, Lori

Addressing and Amplifying the Skills of the Future Hispanic and Latino Construction Workforce Using BIM and Augmented Reality

National Science Foundation

\$985,135

School of Modeling, Simulation, and Training

Lyakh, Arkadiy

Superconducting Thermal Spreader Enabled MWIR Band-IVb Quantum Cascade Laser with 65 W Average Output Power

IRGlare, LLC

\$10,064

Office of Research

Manero, Albert | Crawford, Kaitlyn | Dombrowski, Matthew | Flores, Jacqueline | Massi, Lisa | Smith, Peter | Sparkman, John | Turgut, Damla

PROJECT: Firefly User Generated Customer Stories

Adobe Systems Inc.

\$1,000

Office of Research

McGregor, Maxine

Youth Who Die by Suicide in the Child Welfare System: Improving Suicide Prevention Standards and Efforts for High-Risk Youth

Florida Institute for Child Welfare

\$50,000

College of Health Professions and Sciences

Metzger, Philip

Refuse-to-Get-Stuck Rovers

Cislune, Inc

\$72,500

Office of Research

Metzger, Philip

Minimizing Volatile Sublimation During Excavation

Cislune, Inc

\$49,400

Office of Research

Metzger, Philip

Deflector Cone and Vented Launch Pad

Cislune, Inc

\$10,000

Office of Research

Neupane, Madhab

Light-Matter Interaction in Altermagnetic Quantum Materials

US Department of Energy

\$109,018

College of Sciences

Rivera, Paola

The Chronic Effects of Low-Load Blood Flow Restriction and Creatine Supplementation on Strength and Neuromuscular Function

National Strength and Conditioning Association

\$11,542

College of Health Professions and Sciences

Seal, Sudipta

Principal Component and Spectroscopic Fingerprint Analysis of HTPB R-45M: A Chemometric Approach Towards a Propellant Predictor Tool

Helicon Chemical Company LLC

\$20,925

College of Engineering and Computer Science

Tetard, Laurene

EAGER: Breaking the Walls Down: Understanding the Role of Cell Wall Components in Root Growth Regulation Under Water Deficit Conditions

The Curators of the University of Missouri

\$33,173

Office of Research

Vazquez, Heather | Fronczek, Jason

Alliance for Higher Education in Prison 2023

Laughing Gull Foundation

\$1,800

College of Arts and Humanities

Wang, Xueqiang

Collaborative Research: Implementation: Medium: Secure, Resilient Cyber-Physical Energy System
Workforce Pathways via Data-Centric, Hardware-in-the-Loop Training

National Science Foundation

\$59,302

College of Engineering and Computer Science

Watson, Keri

FPEP Capacity Building Grant 2023-24

Laughing Gull Foundation

\$8,000

College of Arts and Humanities

Yu, Haofei | Chen, Jiannan

Using a Digital Twin Approach for Designing and Evaluating Landfill Gas Emissions Modeling and
Monitoring

University of Florida Board of Trustees

\$37,227

College of Engineering and Computer Science

Zhang, Teng

Understanding Adversarial Examples in Neural Network: Theory and Algorithms

National Science Foundation

\$240,000

College of Sciences