



SUNY POLYTECHNIC INSTITUTE

May 27, 2022

SUNY Poly Faculty –

Please join me in congratulating our colleagues on their recently-awarded grants and projects (listed below).

In addition, please find a list of new federal funding opportunities. Reach out to the [Office of Research](#) for help with exploring these opportunities and connect with the [Office of Sponsored Programs](#) for submitting proposals.

Sincerely,

Nathaniel Cady

Professor and Interim Vice President of Research – SUNY Polytechnic Institute

Recent SUNY Polytechnic Funding Announcements

- Prof. Ji Ung Lee has received a new award jointly funded by the SUNY Applied Materials Research Institute (SAMRI) entitled, “3D Monolithic Integration with 2D van der Waals Semiconductors” (\$150,001 – Year 1).
- Prof. Adam McLain has received a new subaward from University of Minnesota (NIH Prime-R21), entitled, “Linking evolution to aging through DNA methylation and CpG density by examining twelve mammalian species” (\$105,518).
- Prof. Mengbing Huang has received a new award jointly funded by Lawrence Livermore National Laboratory entitled, “Physical and chemical characterization of advanced dielectric thin films for high fluence laser applications” (\$39,997) and a second award entitled “Ion Beam Characterization of Hydrogen Exposed Oxide Films” (\$19,995).
- Prof. Nathaniel Cady has received a new award from NIST (with AIM Photonics) entitled “Photonics Point of Care Sensors for Coronavirus Response” (\$400,000).
- Prof. Shadi Shahedipour-Sandvik has received a new award from the SUNY Applied Materials Research Institute (SAMRI) entitled, “Selective Area Growth of InGaN microLEDs on AlN Seed Layers on Silicon Substrates” (\$210,392) and a new subcontract from SRI International, entitled, “ENVision,” for a project (funded by DARPA - \$698,565).
- Prof. Spyros Galis has recently received a new subaward from University of Rochester (NSF Prime), entitled, “QuIC-TAQS: Multifunctional integrated quantum photonic processor for quantum interconnect” (\$440,000).
- Prof. Woongje Sung has recently received a new award from LX Semicon, entitled, “Development of 1.2kW SiC Trench MOSFETs” (\$250,000).
- Michael Fancher has recently received a new award from NYSEERDA, entitled, “Zen Smart Building Partner Aligned Training Hub “ZEN Smart PATH” (\$397,637).

- Prof. Serge Oktyabrsky has received a new award from U.S. Department of Energy, entitled, “Design and Evaluation of InAs/GaAs Quantum Dot Integration Scintillation Detectors for HEP” (\$300,000).
- Prof. Harry Efstathiadis has recently received two new awards, first from BMW of North America, entitled, “Examine Lithium deposition into a porous anode structure as a function of electrochemical cycling conditions in Li-ion batteries” (\$126,291) and second from Eonix, LLC entitled “High-Performance, Low-Cost Anode-Free Lithium-Ion Batteries for Electric Vehicles and Consumer Electronics” (\$35,000).
- Prof. Sivapalan Gajan received an award from the National Science Foundation for a two year project entitled “ERI: A Hybrid Mechanics-Guided Machine Learning-Based Predictive Framework for the Performance of Rocking Foundations During Earthquake Loading” (\$198,571).

New Funding Opportunities (Grants.gov) through May 27,2022

DOI

Department of the Interior

Bureau of Reclamation

Desalination and Water Purification Research Program Pitch to Pilot for Fiscal Year 2022 Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=340740>

HHS

Department of Health and Human Services

Agency for Health Care Research and Quality Reducing Racial and Ethnic Healthcare Disparities in Chronic Conditions by Dissemination and Implementation of Patient Centered Outcomes Research (PCOR) Evidence (R18) Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=335206>

DOD

Department of Defense

Dept. of the Army -- USAMRAA

DOD Chronic Pain Management, Translational Research Award Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=340630>

ED

Department of Education

Institute of Education Sciences (IES): National Center for Education Research (NCER):Using Longitudinal Data to Support State Education Policymaking Assistance Listing Number (ALN) 84.305S Synopsis 4

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=340624>

DOT

Department of Transportation

Pipeline and Hazardous Materials Safety Admin FY 2022 Natural Gas Distribution Infrastructure Safety and Modernization Grant Synopsis 3

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=340638>

DOT

Department of Transportation

DOT/Federal Transit Administration

FY 2022 Pilot Program for Transit-Oriented Development (TOD) Planning Synopsis 1
<https://www.grants.gov/web/grants/view-opportunity.html?oppld=340728>

DOD

Department of Defense

Dept. of the Army -- USAMRAA

DOD Chronic Pain Management, Investigator-Initiated Research Award Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=340629>

PAMS

Department of Energy - Office of Science Office of Science Reaching a New Energy Sciences Workforce (RENEW)
- Earth and Environmental Systems Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=340631>

DOS

Department of State

Bureau of Democracy Human Rights and Labor DRL Countering Labor Violence in Northern Central America
Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=340637>

DOT

Department of Transportation

Pipeline and Hazardous Materials Safety Admin FY 2022 Natural Gas Distribution Infrastructure Safety and
Modernization Grant Synopsis 2

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=340638>

DOS

Department of State

U.S. Mission to Ukraine

Ukraine: USG Exchange Alumni Small Grants Program Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=340632>

HHS

Department of Health and Human Services

National Institutes of Health

BRAIN Initiative: Research Opportunities Using Invasive Neural Recording and Stimulating Technologies in the
Human Brain (U01 Basic Experimental Studies with Humans Required) Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=340635>

PAMS

Department of Energy - Office of Science

Office of Science

Reaching a New Energy Sciences Workforce for High Energy Physics (RENEW-HEP)
Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=340642>

DOS

Department of State

Bureau of International Narcotics-Law Enforcement

Countering Wildlife Trafficking in South and Southeast Asia

Synopsis 2

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=340652>

HHS

Department of Health and Human Services

National Institutes of Health

Promoting Organ and Tissue Donation Among Health Disparity Populations (R01 - Clinical Trial Optional)

Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=340654>

NEH

National Endowment for the Humanities

Infrastructure and Capacity Building Challenge Grants

Synopsis 4

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=338665>

PAMS

Department of Energy - Office of Science

Office of Science

Advanced Scientific Computing Research - Reaching a New Energy Sciences Workforce (ASCR-RENEW)

Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=340651>

DOD

Department of Defense

Dept. of the Army -- USAMRAA

DoD Breast Cancer, Transformative Breast Cancer Consortium Award

Synopsis 2

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=340657>

DOI

Department of the Interior

Bureau of Reclamation

WaterSMART Grants: Water and Energy Efficiency Grants for Fiscal Year 2023

Synopsis 3

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=339953>

VA

Department of Veterans Affairs

VHA Member Services

Grants for Transportation in Highly Rural Areas

Forecast 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=340667>