



OFFICE OF RESEARCH
SUNY POLYTECHNIC INSTITUTE

June 24, 2020

Please join me in congratulating the following faculty whose projects were selected for funding under the Faculty Seed Grant program (awards listed in the table below). The funds for this program were provided by SUNY and had been significantly delayed during the pandemic. We are very excited that those funds have finally been released and that these projects can start. The intent of the Faculty Seed Grant program is to enable faculty to initiate or expand research efforts and to increase competitiveness for pursuing external funding opportunities.

I would also like to draw your attention to the “Save the Date” announcement for a Nano IoT Symposium being organized by Cornell University, and to the list of new funding opportunities from Grants.gov.

Enjoy the upcoming holiday and please reach out with research-related questions or with any announcements for upcoming newsletters.

Nate Cady
Interim Vice President of Research

PI	Co PI(s)	Title
Unni Pillai		Estimating the rate of diffusion of Information Technology and its impact on the economy by measuring the semiconductor content in capital equipment.
Benoit Boivin		Understanding the Molecular Mechanisms that Control Protein Tyrosine Phosphatase Inactivation
Jagannath Upadhyay		Evaluation of physical and chemical properties of bulk modified thiol-acrylate system for high throughput detection of various infectious diseases
Luye Li	Rebecca Weldon	The use of information and communication technology (ICT) and college students’ attitudes toward dating violence and sexual aggression
Jerome Niyirora		Exploration of large data sets for correlations and emergent properties of health care
Rebecca Weldon	Luye Li, Daniel Jones	Can the Perception of Conflict Lead to Healthier Behavior?
Joyce Shen	Shuang Tang	Direct printing of free-standing liquid metal 3D microstructure for conductive, flexible networks

Andre Melendez	Scott Tenenbaum, Tom Begley	Therapeutic control of Senescence
Spyros Gallis		Near-Infrared Emission Microscopy for Solid-State Single-Photon Emitters
Iulian Gherasoiu	Harry Efstathiadis, Mike Fasullo	Effective and Reusable Solid-State Electric Air Filter for Personal Protective Equipment
Sivapalan Gajan		Development of Predictive Algorithms using Machine Learning for the Performance of Rocking Foundations Supporting Buildings and Bridges during Seismic Loading

Save The Date!

2022 Nano-IoT Research Community Symposium Tuesday, August 16, 2022

On Tuesday August 16, the Cornell NanoScale Science and Technology Facility (CNF) will host the 2022 Nanoscale Internet-of-Things

(Nano-IoT) Research Community Symposium at Cornell University in Ithaca NY. The purpose of the symposium is to inform and exchange ideas between National Nanotechnology Coordinated Infrastructure (NNCI) users and interested researchers in Nanoscale Internet-of-Things (Nano-IoT) research.

This hybrid event will feature invited speakers who will highlight emerging research areas in Nano-IoT followed by center director overviews showcasing the work performed at their individual NNCI sites.

An in-person-only panel discussion will be held in the afternoon to help define future Nano-IoT research directions.

<https://cnf.cornell.edu/events/2022-nano-iot>

New Funding Opportunities (Grants.gov) through June 24, 2022

HHS

Department of Health and Human Services

Administration for Children and Families-IOAS-OTIP SOAR to Health and Wellness Training (SOAR) Demonstration Program Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=339910>

USDA

Department of Agriculture

National Institute of Food and Agriculture Open Data Framework Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341057>

HHS

Department of Health and Human Services

Health Resources and Services Administration Service Area Competition Forecast 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341056>

PAMS

Department of Energy - Office of Science Office of Science Basic Energy Sciences - Reaching a New Energy Sciences Workforce (BES-RENEW) Synopsis 2

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=340675>

HHS

Department of Health and Human Services

National Institutes of Health

Novel Drug (DDT) and Medical Device Development Tools (MDDT) to Help Expedite Creation and Regulatory Approvals of New Therapies for Substance Use Disorders (SUD) (R41/R42 Clinical Trial Optional) Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341058>

USDOJ

Department of Justice

Bureau of Justice Statistics

FY 2022 National Pretrial Reporting Program Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341065>

DOS

Department of State

Bureau of East Asian and Pacific Affairs U.S.-ASEAN Science, Technology and Innovation Cooperation (STIC) Program Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341085>

NSF

National Science Foundation

Mid-Career Advancement

Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341086>

DOT

Department of Transportation

Pipeline and Hazardous Materials Safety Admin FY 2022 Natural Gas Distribution Infrastructure Safety and Modernization Grant Synopsis 7

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

HHS

Department of Health and Human Services

Administration for Children and Families-IOAS-OTIP

Aspire: Child Trafficking Victim Assistance Demonstration Program Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=340513>

HHS

Department of Health and Human Services

Health Resources and Services Administration Service Area Competition Forecast 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341037>

HHS

Department of Health and Human Services

Health Resources and Services Administration FY 2023 Service Area Competition Forecast 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341036>

DOD

Department of Defense

Dept. of the Army -- Corps of Engineers Recreational Road Inventories at USACE Project Sites Forecast 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=340975>

HHS

Department of Health and Human Services

Health Resources and Services Administration FY 2023 Quality Improvement Fund: Maternal Health (QIF-MH) Forecast 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341039>

HHS

Department of Health and Human Services

Health Resources and Services Administration Service Area Competition Forecast 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341038>

USDA

Department of Agriculture

Rural Business-Cooperative Service

Meat and Poultry Intermediary Lending Program Synopsis 2

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=340777>

DOS

Department of State

U.S. Mission to Ukraine

Professional Development & Exchange for Ukrainian Educators of Preservice Teachers

Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341035>

DOD

Department of Defense

DARPA - Defense Sciences Office

Defense Sciences Office Office-wide

Synopsis 2

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=334133>

ED

Department of Education

Office of Special Education and Rehabilitative Services (OSERS): Office of Special Education Programs (OSEP): State Personnel Development Grants (SPDG) Program, Assistance Listing Number 84.323A

Synopsis 3

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341047>

HHS

Department of Health and Human Services

Health Resources and Services Administration

FY 2023 National Training and Technical Assistance Partners (NTTAP)

Forecast 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341041>

HHS

Department of Health and Human Services

Health Resources and Services Administration

FY 2023 Early Childhood Development

Forecast 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341040>

HHS

Department of Health and Human Services

National Institutes of Health

Novel Drug (DDT) and Medical Device Development Tools (MDDT) to Help Expedite Creation and Regulatory Approvals of New Therapies for Substance Use Disorders (SUD) (R43/R44 Clinical Trial Optional)

Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341043>

HHS

Department of Health and Human Services

Health Resources and Services Administration

Strengthen the Evidence for Maternal and Child Health Programs

Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=339186>

HHS

Department of Health and Human Services

National Institutes of Health

Stakeholder Engagement Innovation Center for Advancing Health Equity in Type 2 Diabetes Research (U2C - Clinical Trial Not Allowed)

Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341042>

DOS

Department of State

Bureau of Global Public Affairs

Countering Threats to Freedom of Expression in Academia

Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341053>

DOI

Department of the Interior

Geological Survey

Cooperative Agreement for CESU-affiliated Partner with South Florida Caribbean Cooperative Ecosystem Studies Unit

Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341052>

HHS

Department of Health and Human Services
Administration for Children and Families - ORR
Refugee Individual Development Accounts (IDA) Program

Synopsis 2

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=339004>

HHS

Department of Health and Human Services
Health Resources and Services Administration
Service Area Competition

Forecast 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341054>

DOT

Department of Transportation
DOT Federal Highway Administration
Bridge Investment Program - Planning, Bridge Projects, and Large Bridge Projects

Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341050>

DOI

Department of the Interior
Geological Survey
2023 National Geological & Geophysical Data Preservation Program Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341125>

HHS

Department of Health and Human Services
National Institutes of Health
Innovative Approaches to Studying Cancer Communication in the New Information Ecosystem (R21 Clinical Trial Optional) Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341109>

HHS

Department of Health and Human Services
National Institutes of Health
Innovative Approaches to Studying Cancer Communication in the New Information Ecosystem (R01 Clinical Trial Optional) Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341108>

DOL

Department of Labor

Employment and Training Administration

FY 2022 Foreign Labor Certification Grant Planning Guidance Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341127>

HHS

Department of Health and Human Services

Health Resources and Services Administration Rural Communities Opioid Response Program – Medication Assisted Treatment Access Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=339574>

EPA

Environmental Protection Agency

FY 2022 Tribal Solid Waste Grant

Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341110>

USAID

Agency for International Development

Georgia USAID-Tbilisi

USAID Educating the Future Program

Forecast 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341105>

DOS

Department of State

U.S. Mission to Morocco

Coalition Training for Women Parliamentarians Synopsis 5

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341104>

NASA

National Aeronautics and Space Administration NASA Headquarters ROSES 2022: Technology Development for Support of Wildfire Science, Management, and Disaster Mitigation Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341106>

ED

Department of Education

Office of Postsecondary Education (OPE): Higher Education Programs (HEP): Promoting Postbaccalaureate Opportunities for Hispanic Americans (PPOHA) Program, Assistance Listing Number (ALN) 84.031M Synopsis 3

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341007>

DOS

Department of State

Assistance Coordination

Fiscal Transparency Innovation in Egypt

Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341120>

NSF

National Science Foundation

HSI Program Network Resource Centers and Hubs Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341123>

DOD

Department of Defense

Dept. of the Army -- USAMRAA

DoD Reconstructive Transplant, Investigator- Initiated Research Award Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341133>

DOD

Department of Defense

Dept. of the Army -- USAMRAA

DoD Reconstructive Transplant, Advanced Technology Development Award Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341132>

HHS

Department of Health and Human Services

National Institutes of Health

Registry of Medical Cannabis Use and Health Outcomes (UM1 - Clinical Trial Optional) Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341134>

USAID

Agency for International Development

El Salvador USAID-San Salvador

El Salvador Country Development Cooperation Strategy (CDCS) Annual Program Statement (APS)
Synopsis 4

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=332969>

DOS

Department of State

U.S. Mission to Armenia

Track II Programs

Synopsis 2

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341130>

DOS

Department of State

Bureau of Political-Military Affairs - WRA 22.PMWRA.WESTAFRICA.WAM.NOFO Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341137>

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>

DOC

Department of Commerce

Restoring Tribal Priority Fish Passage through Barrier Removal under the IJA Synopsis 2

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341139>

HHS

Department of Health and Human Services

National Institutes of Health

Precision Approaches in Radiation Synthetic Combinations (PAIRS, R01 Clinical Trial Optional) Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341117>

HHS

Department of Health and Human Services

National Institutes of Health

Limited Competition: A Data Resource for Blood and Marrow Transplants and Adoptive Cellular Therapy Research (U24 Clinical Trial Not Allowed) Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341116>

HHS

Department of Health and Human Services

National Institutes of Health

Precision Approaches in Radiation Synthetic Combinations (PAIRS, R21 Clinical Trial Optional) Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341118>

DOD

Department of Defense

Dept. of the Army -- USAMRAA

DoD Reconstructive Transplant, Concept Award Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341113>

HHS

Department of Health and Human Services

National Institutes of Health

Network for Personalization of Diagnostic Tests for Alzheimers Disease (AD) and Alzheimers Disease-Related Dementias (ADRD) in Older Adults with Multiple Chronic Conditions (MCCs) (U24 Clinical Trial Optional) Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341114>

HHS

Department of Health and Human Services

Centers for Disease Control and Prevention - ERA

Improving Health Outcome for Patients with Inflammatory Bowel Disease

Forecast 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341189>

USDA

Department of Agriculture

Animal and Plant Health Inspection Service

National Animal Disease Preparedness and Response Program (NADPRP) 2022

Synopsis 3

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341188>

DOS

Department of State

Assistance Coordination

Sharing Underutilized Resources with Fishers and Farmers

Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341190>

USDA

Department of Agriculture
Foreign Agricultural Service
Kenya Solar Cold Storage

Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341185>

DOS

Department of State
U.S. Mission to Jordan
Supporting Youth Rehabilitation and Reintegration in Jordan

Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341184>

HHS

Department of Health and Human Services
Centers for Disease Control - CSELS
Strengthening U.S. Public Health Infrastructure, Workforce, and Data Systems

Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=340034>

NSF

National Science Foundation
Launching Early-Career Academic Pathways in the Mathematical and Physical Sciences (LEAPS-MPS)

Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341154>

HHS

Department of Health and Human Services
Health Resources and Services Administration
Service Area Competition

Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341036>

DOL

Department of Labor
Employment and Training Administration
FY 22 Trade Adjustment Assistance (TAA) Training and Other Activities (TaOA) Grant Management
Guidance.

Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341193>

HHS

Department of Health and Human Services
National Institutes of Health
Pragmatic Clinical Trials in Community Settings to Decrease or Prevent VCID Outcomes, Including in
Populations that Experience Health Disparities (U01 Clinical Trial Required)

Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341192>

DOC

Department of Commerce

FY 2022 CARES Act Economic Recovery Corps and Equity Impact Investments NOFO

Synopsis 2

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341163>

USDOJ

Department of Justice

Bureau of Justice Assistance

BJA FY 22 Edward Byrne Memorial Justice Assistance Grant Program - State Solicitation

Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341162>

USDOJ

Department of Justice

Bureau of Justice Statistics

FY 2022 Law Enforcement Management and Administrative Statistics (LEMAS)

Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341194>

USAID

Agency for International Development

Guatemala USAID-Guatemala City

USAID/Guatemala's Prosperous and Resilient Landscapes Activity

Forecast 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341206>

DOT

Department of Transportation

DOT Federal Highway Administration

Bridge Investment Program - Planning, Bridge Projects, and Large Bridge Projects

Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341050>

DOD

Department of Defense

Engineer Research and Development Center Flood and Earthquake Modeling Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341344>

HHS

Department of Health and Human Services

National Institutes of Health

Advancing Research on Alzheimer's Disease (AD) and AD-Related Dementias (ADRD) (R41/R42 Clinical Trial Optional) Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341325>

HHS

Department of Health and Human Services

Centers for Disease Control - NCCDPHP

The Sudden Unexpected Infant Death (SUID) and Sudden Death in the Young (SDY) Case Registry Forecast 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341292>

HHS

Department of Health and Human Services

National Institutes of Health

Advancing Research on Alzheimer's Disease (AD) and AD-Related Dementias (ADRD) (R43/R44 Clinical Trial Optional) Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341289>

DOD

Department of Defense

DARPA - Tactical Technology Office

Redefining Possible - 2022

Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341297>

HHS

Department of Health and Human Services

Centers for Disease Control - NCIPC

Domestic Violence Prevention Enhancement and Leadership Through Alliances (DELTA): Achieving Health Equity through Addressing Disparities (AHEAD) Forecast 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341328>

NSF

National Science Foundation

Computational and Data-Enabled Science and Engineering Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341299>

NASA

National Aeronautics and Space Administration NASA Headquarters ROSES 2022: Living with a Star Science Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341349>

HHS

Department of Health and Human Services

National Institutes of Health

Transformative Artificial Intelligence and Machine Learning Based Strategies to Identify Determinants of Exceptional Health and Life Span (R21/R33 Clinical Trial Not Allowed) Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341351>

DOD

Department of Defense

Engineer Research and Development Center Automated and Robotic Inspection of Flood Control Systems Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341355>

NSF

National Science Foundation

Computational and Data-Enabled Science and Engineering Synopsis 1

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341299>