

# DIRECTOR'S REMARKS NATIONAL SCIENCE BOARD MEETING

Sethuraman Panchanathan, U.S. National Science Foundation
July 24, 2024

# NSB-NSF PARAMETER PARAMETE

# NSB-NSF PARTNERSHIP

NSF welcomes new NSB Chairman,

## Dr. Darío Gil









House Committee on Science, Space and Technology Subcommittee on Research and Technology

Oversight and Examination of the U.S. National Science Foundation's Priorities for 2025 and Beyond

May 16, 2024





Senate Committee on Appropriations Subcommittee on Commerce, Justice, Science, and Related Agencies

Review of the President's Fiscal Year 2025 Budget Request for the National Aeronautics and Space Administration and for the U.S.

National Science Foundation

May 23, 2024









# STRENGTHENING ESTABLISHED NSF

With investments that expand the frontiers of knowledge and discovery

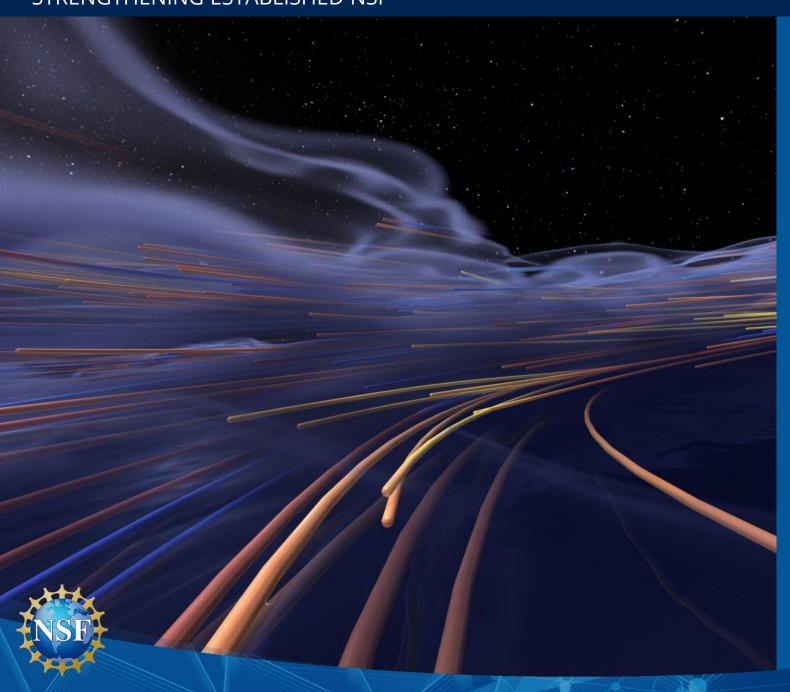
# INSPIRING MISSING MILLIONS

Using capacity building and interventions that enhance and broaden participation

# ACCELERATING TECHNOLOGY AND INNOVATION

Through innovative, cross-cutting partnerships and programs





# NSF Trailblazer Engineering Impact Award

- Inaugural program to enable researchers to pursue novel engineering research projects
- 6 Trailblazers to receive \$3M each leading projects in biotechnology, sustainability, quantum technology, and more
- Catalyzes the convergence of engineering and science domains that ultimately strengthen U.S. resilience and competitiveness



# Gabriel López, University of New Mexico

 Developing an innovative model for wildfire mitigation and forest sustainability through the creation of bio-based chemical feedstocks from forest debris

American and Hispanic communities that rely on forest health in North Central New Mexico





## NSF LCCF Leadership-Class Computing Facility

- Construction has begun for a cutting-edge LCCF led by Texas Advanced Computing Center at the University of Texas at Austin
- Partnerships with multiple institutions, including HBCUs, will ensure broad access and advance Al and computational research across the U.S.
- To enhance NAIRR's ability to support at-scale Al research across a diverse range of fields











# NSF RESEARCH TRAINEESHIP PROGRAM





### Dr. Karletta Chief

Principal Investigator of the Indigenous Food Energy Water Security Sovereignty Training (Indige-FEWSS) Program at the University of Arizona

- Leads an NRT aimed at developing a diverse workforce with intercultural awareness and expertise in FEWS for Indigenous communities
- Training 39 graduate students to partner with Indigenous communities and create sustainable solutions through cultural immersion and pilot projects with the Navajo Nation



# NSF RESEARCH TRAINEESHIP PROGRAM (NRT)



Celebrating A Decade Of Investments In The STEM Workforce

2014





















190 PROJECT AWARDS

45 STATES

3,000
NRT-SUPPORTED STUDENTS

119
ACTIVE PROJECTS AWARDS

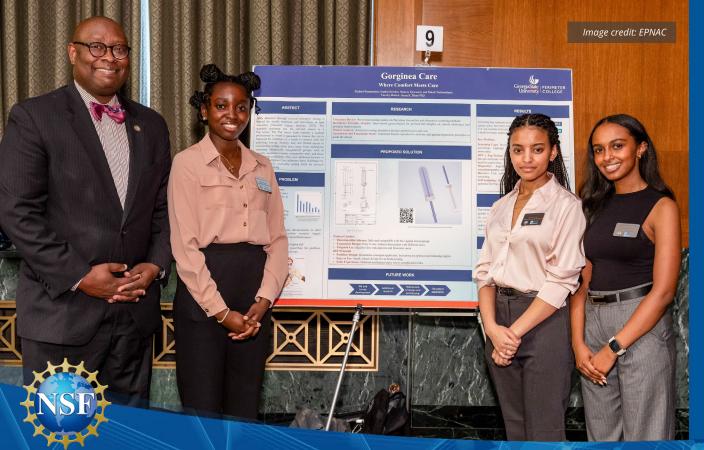
**20** EPSCoR JURISDICTIONS

116
INSTITUTIONS

5,000
TRAINEES PREPARED







## NSF Community College Innovation Challenge

**First Place Winner** (Pictured)

Perimeter College at Georgia State University, Georgia: Addressing cervical cancer mortality rates, especially in low-income countries, through a noninvasive screening alternative.

#### **Second Place Winner**

**Dallas College, Texas:** Protecting agricultural land with the Autonomous Monitoring for Blaze Emergency Response (AMBER) early detection system.

#### Third Place Winner

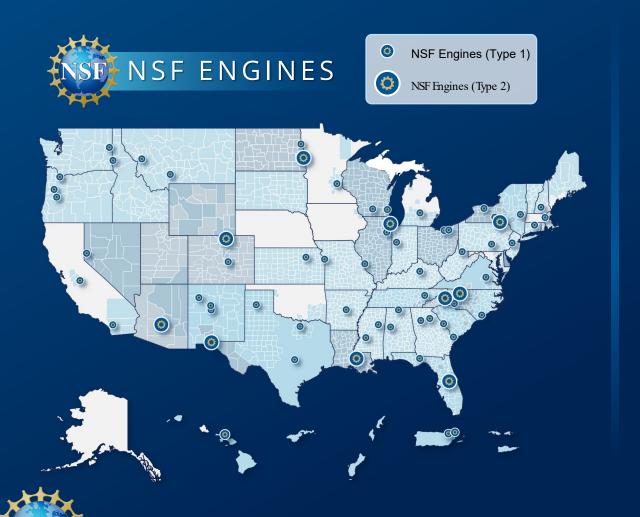
**County College of Morris, New Jersey:** 

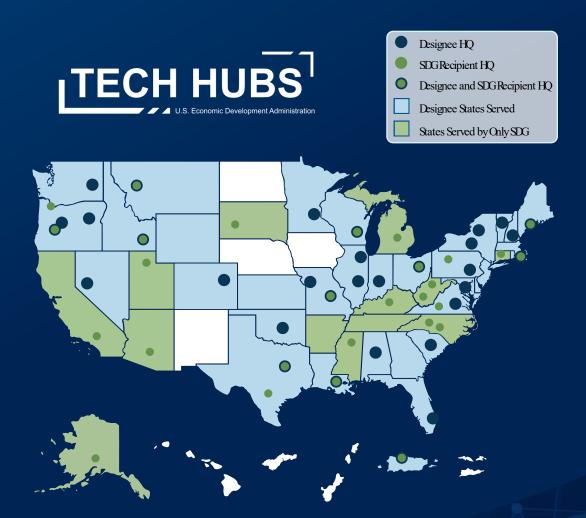
Safely and efficiently increasing the world's energy supply through a molecular solar thermal system.



# ACCELERATING

TECHNOLOGY, INNOVATION AND PARTNERSHIPS









RENO, NEVADA

POWERING THE INDUSTRIES OF TOMORROW

**\$1M NSF Development Award:** *Circular Economy for Lithium Batteries* 

#### \$21M EDA Tech Hub Award:

Lithium Batteries and Other EV Material Loop

- Over 80 business, academic, non-profit, and government partners.
- Over 50,000 STEM jobs estimated to be created.
- A home-grown powerhouse for a critical industry in the future economy.





#### LOUISIANA

LEADING THE TRANSITION TO THE ENERGIES OF TOMORROW

**\$15M NSF Engine Award**Louisiana Energy Transition Engine

**\$450K EDA Strategy Development Grant**Gulf Louisiana Offshore Wind Propeller

- Over 60 business, academic, non-profit, and government partners
- Over 250,000 oil and gas jobs to transition to clean energy
- An American energy revolution for cleaner, cheaper domestic fuel





BINGHAMTON, NEW YORK

STORING THE ENERGY FOR A BRIGHTER TOMORROW

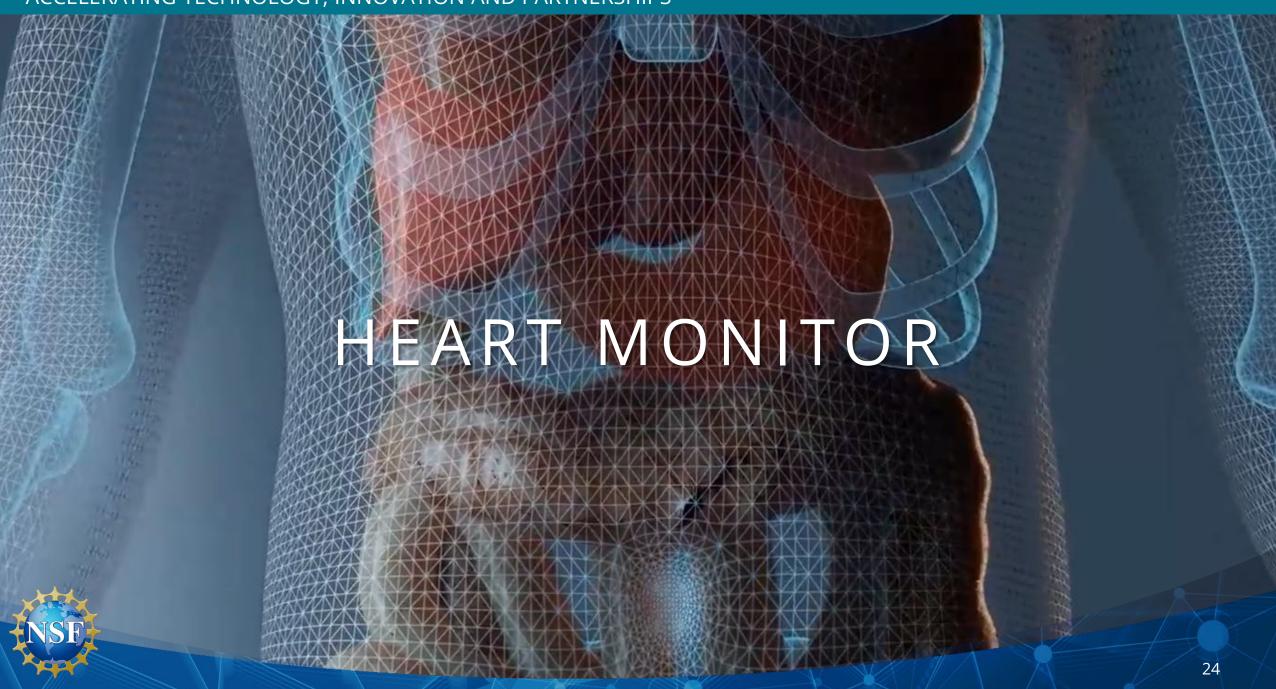
**\$15M NSF Engine Award:**Upstate New York Energy Storage Engine

## **EDA Tech Hub Designee:**New Energy New York Battery Tech Hub

- 50 business, academic, non-profit, and government partners
- 27 counties involved
- The cutting edge of next-gen batteries developed on American soil.







# CONGRESSIONAL

ENGAGEMENTS





#### AI ENGAGEMENTS





Al Expo for National Competitiveness

**Elizabeth Webber** *NSF Program Director Division of Graduate Education* 

May 8, 2024

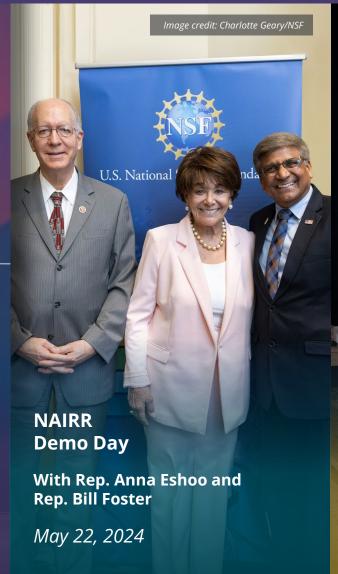




Image credit: Charlotte Geary/NSF

# INTERMATIONAL

ENGAGEMENTS

#### INTERNATIONAL ENGAGEMENTS

Global Research Council (GRC) 12<sup>th</sup> Annual Meeting

Interlaken, Switzerland May 28, 2024 Image credit: Adrian Moser

Image credit: Adrian Moser

India – U.S. Initiative on Critical and Emerging Technologies

New Delhi, India June 17, 2024



nage credit: Kendra Sharp/NSF

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NSF – Korea Collaborations

Seoul, South Korea July 15, 2024





# CHIEF MANAGEMENT OFFICER INTRODUCTION



MICAH CHEATHAM



## Senior Executive Introductions

#### Mr. Francisco Ruben

Agency Ethics Official (DAEO) & Senior Assistant General Counsel

#### **Mr. Victor Powers**

Division Director, Division of Administrative Services (DAS) in the Office of Information and Resource Management (OIRM)

#### Dr. Felecia Nave

Division Director in the Division of Equity for Excellence (EES) in the Directorate for STEM Education (EDU)

#### Dr. Kathryn Jablokow

Deputy Division Director, Division of Research, Innovation, Synergies, and Education (RISE) in the Directorate for Geosciences (GEO)

#### **Dr. John-David Swanson**

Section Head for Innovation Programs within the Division of Innovation and Technology Ecosystems (ITE) in the Directorate for Technology, Innovation and Partnerships (TIP)



# DIRECTOR'S AWARDS

## CELEBRATING NSF'S OUTSTANDING STAFF

Excellence, Public Service, Learning, Inclusion, Collaboration, Integrity, and Transparency

## Recognizing Individuals or Groups:

- Administrative Excellence
- Meritorious Service
- Distinguished Service
- Leader of Change/Innovation
- Superior Accomplishment (Individual)
- Superior Accomplishment (Leads and Members)

## Special Awards:

- Esther F. Gist for Labor Relations
- Achievement in Equal Opportunity or Diversity, Equity, Inclusion
- Outstanding Mentorship

## Expanding and encouraging an inclusive process in 2024:

- More time for nomination submissions, directorate/office reviews, and final panel discussions
- Provided instructions for Nominators on narrative submission, including samples in respective award categories.

2023	2024
472	697
Employees	Employees
Nominated	Nominated





