RESEARCH GRANTS
funds to grow

Puerto Rico
Science, Technology
& Research Trust

ASU Milo Space Science Institute
Arizona State University

Milo Space Science Institute

CLIMATE ACTION ACADEMY

ACADEMIX

RESEARCH GRANTS
funds to grow

Puerto Rico
Science, Technology
& Research Trust

WeAreTheTRUST

HELLO!

Kamille Morales Lebrón

Outreach & Content Specialist- Research Grants Program

Puerto Rico Science, Technology and Research Trust

@prsciencetrust.org

MOU

RESEARCH GRANTS
funds to grow

A program of the: Puerto Rico Science, Technology & Research Trust

ASU Milo Space Science Institute
Arizona State University

Arizona State University's

Milo Space Science Institute

- A private, nonprofit organization led by Arizona State University (ASU)
- Aims to make space science and exploration accessible to countries around the world.
- Focuses on increasing knowledge, infrastructure, and human capital in participating countries.

Services provided by Milo:

- Workforce development.
- Access to mission infrastructure as a service.
- Participation in space exploration missions.
- Milo's capacity building programs
- Designed to increase participation in space science.
- Encourage space commerce.
- Promote sustainable growth.
- Improve socio-economic health of communities served.

Arizona State University's

Milo Space Science Institute

ASU Milo Space Science Institute
Arizona State University

RESEARCH GRANTS
funds to grow

Puerto Rico
Science, Technology
& Research Trust

Milo Space
Science Institute
Arizona State University

New Zealand

RESEARCH GRANTS
funds to grow

Puerto Rico Science, Technology & Research Trust

Milo Space Science Institute
Arizona State University

Australia

Finn Manning • 2nd
Electrical Engineering and Physics student | John Curti...
3w • Edited •
+ Follow

I am delighted to share that I have been accepted into the 2024 Milo Mission Academy which is being hosted in a collaborative effort from Arizona State University's The MILO Space Science Institute, AROSE, and the Australian Space Agency.

This is to be one of the many initial steps of my journey into the space sector. The skills, experience, and network I will be able to build in this program will become an asset to not only my future development but also to the Curtin Student CubeSat Team.

I eagerly look forward to working with enthusiastic like minded peers in interdisciplinary teams as a part of the academy.

#MiloMissionAcademyAUS

RESEARCH GRANTS
funds to grow

Puerto Rico
Science, Technology
& Research Trust

Milo Space
Science Institute
Arizona State University

Singapore

RESEARCH GRANTS
funds to grow

Puerto Rico
Science, Technology
& Research Trust

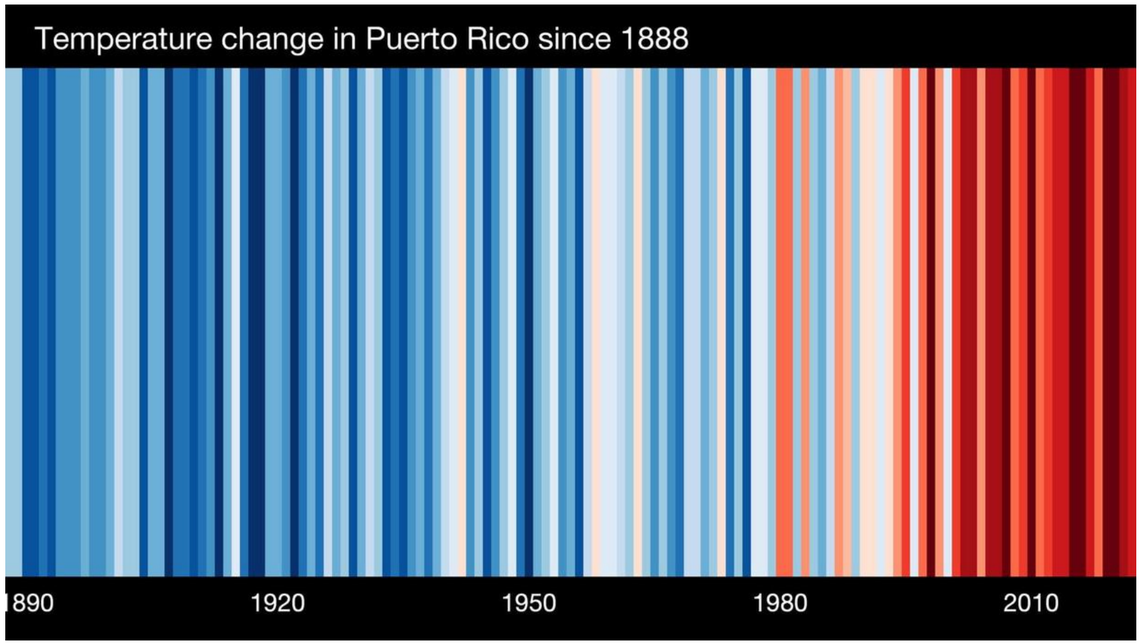
ASU Milo Space Science Institute
Arizona State University

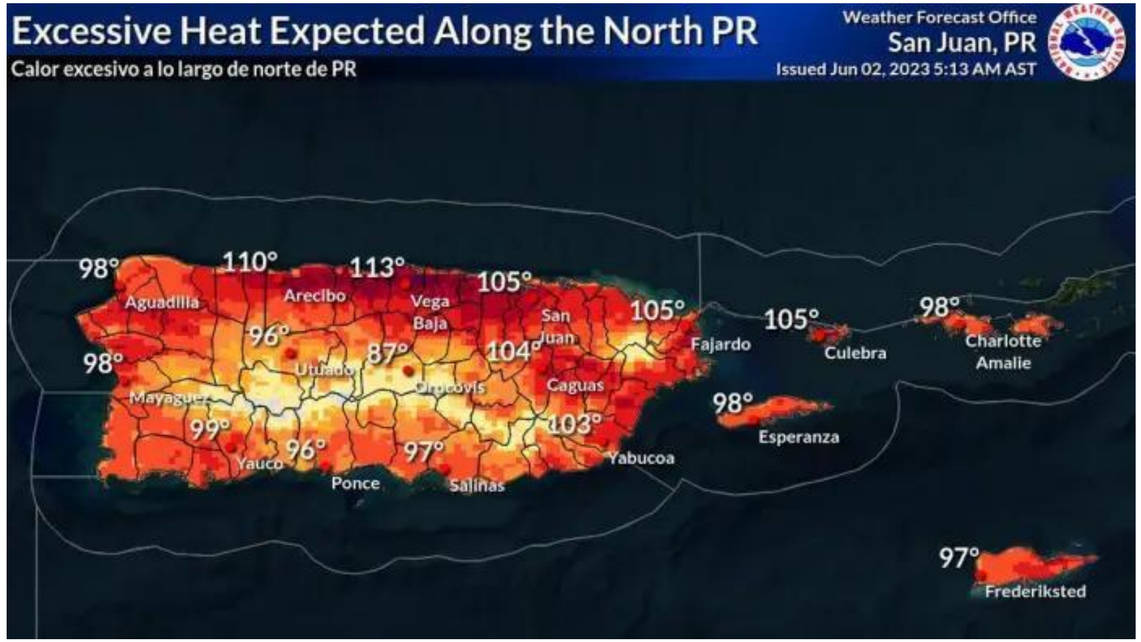
RESEARCH GRANTS
funds to grow

Puerto Rico
Science, Technology
& Research Trust

Milo Space
Science Institute
Arizona State University

Climate Change Affects Us All



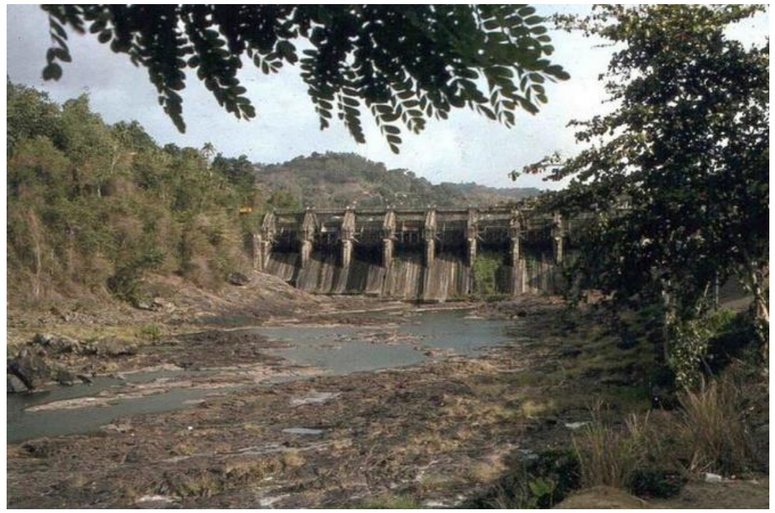


RESEARCH GRANTS
funds to grow

Puerto Rico
Science, Technology
& Research Trust

ASU Milo Space Science Institute
Arizona State University

Climate Change effects in Puerto Rico



RESEARCH GRANTS
funds to grow

Puerto Rico
Science, Technology
& Research Trust

ASU Milo Space Science Institute
Arizona State University

Climate Action Academy for Puerto Rico

The Climate Action Academy represents a groundbreaking initiative, marking the first time Milo is focusing on equipping students with expertise in remote sensing for addressing climate challenges on Earth. With successful space programs already established in New Zealand, Australia, and Singapore, we are thrilled to pioneer this initiative in Puerto Rico, setting a new standard for climate action.

RESEARCH GRANTS
funds to grow

Puerto Rico
Science, Technology
& Research Trust

ASU Milo Space Science Institute
Arizona State University

White House Fact Sheet

Vice President Kamala Harris Launches Call to Action to Bring the Benefits of Space to Communities Across America

Milo Mission Academy for Climate Intelligence and Earth Science

The Milo Institute at Arizona State University and the Puerto Rico Science, Technology, & Research Trust (PRST) are establishing the Milo Mission Academy for Climate Intelligence and Earth Science. The academy will begin in fall 2024 and will equip students with expertise in remote sensing in order to create cutting-edge applications that use satellite data to address challenges on Earth. The applications will play a pivotal role in monitoring natural resources and land use within island communities to safeguard their wellbeing and sustainability. For more information, contact amaldonado@prsciencetrust.org ↗.

RESEARCH GRANTS
funds to grow

Puerto Rico
Science, Technology
& Research Trust

Milo Space
Science Institute
Arizona State University

Milo Space Science Institute

Climate Action Academy

- 12-session program, conducted over 16 weeks using a live, virtual platform
- 90 minute weekly talks conducted in English
- 6 to 10 hours per week
- Teamwork, problem-solving skills, program management methods and basics of entrepreneurship
- Presentation of a Design Review document where teams describe a use-inspired, applied solutions to a real-world challenge

The program will be fully sponsored by PRSTRT's Research Grants Program

Program Activities

Terrestrial Challenge

This academy will be anchored to a challenge that is defined by the climate mitigation needs of Puerto Rico. You will work in teams to develop solutions addressing the challenges. The approach ensures focus on regional priorities and can help make change happen in your community!

Remote Sensing Resources

Teams will be taught how to access a variety of space resources that can be used to inform and develop innovative solutions. Information about satellite instruments and their relevance for sustainability and climate resilience will be provided.

Innovative Solution

Teams will prepare a Solution Design document, and demonstrate how their solution uses space resources to address the terrestrial challenge. Teams will present their solution design to a panel of reviewers.

RESEARCH GRANTS
funds to grow

Puerto Rico
Science, Technology
& Research Trust

ASU Milo Space Science Institute
Arizona State University

Focus Areas

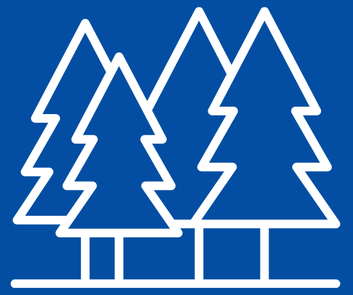
- Forest Health and Restoration
- Coastal Zone Management
- Agricultural Sustainability
- Urban Planning and Infrastructure Resilience
- Water Resources Monitoring

RESEARCH GRANTS
funds to grow

Puerto Rico
Science, Technology
& Research Trust

Milo Space
Science Institute
Arizona State University

Forest Health and Restoration



- Implement remote sensing techniques to monitor the health of Puerto Rico's forests, especially in the aftermath of hurricanes.

- Design a concept for a system that will provide early detection of forest degradation and support reforestation efforts.

RESEARCH GRANTS
funds to grow

Puerto Rico
Science, Technology
& Research Trust

Milo Space
Science Institute
Arizona State University

Coastal Zone Management

- Use remote sensing data to monitor coastal areas, assess erosion, and identify vulnerable zones.

- Develop concepts for sustainable coastal zone management and protection of marine ecosystems.

RESEARCH GRANTS
funds to grow

Puerto Rico
Science, Technology
& Research Trust

Milo Space
Science Institute
Arizona State University

Agricultural Sustainability

- Apply remote sensing for precision agriculture to enhance crop management and monitor soil health.

- Identify areas suitable for sustainable agriculture practices and promote efficient water use.

RESEARCH GRANTS
funds to grow

Puerto Rico
Science, Technology
& Research Trust

Milo Space
Science Institute
Arizona State University

Urban Planning and Infrastructure Resilience

- Leverage remote sensing to analyze urban development patterns and assess vulnerabilities in critical infrastructure.

- Develop a concept for a capability / tool to inform decision makers who are developing plans to enhance the resilience of urban areas, considering future climate change impacts and sea level rise.

RESEARCH GRANTS
funds to grow

Puerto Rico
Science, Technology
& Research Trust

Milo Space
Science Institute
Arizona State University

Water Resources Monitoring

- Use remote sensing to monitor water resources, including rivers, reservoirs, and groundwater.

- Develop a concept for early detection of drought conditions, sustainable water resource management, and adaptation to changing sea levels.

Requirements for Participation

University Student or Early Career Professional in Puerto Rico

Access to a computer or tablet and Zoom platform

Participants must be proficient in English

6-10 hours per week towards team projects

Attend all LIVE session:

Mondays from 5:30 - 7:30 PM (AST)
beginning on August 19, 2024

Passion for learning and a commitment to finding solutions to help Puerto Rican communities face the effects of climate change

Participant Profile:

University Students or Early Career Professionals in:

- Engineering
- Science
- Computer Science or Math
- Urban Planning
- Business
- Architecture
- Social Sciences
- Other

ASU Milo Space Science Institute
Arizona State University

Application Questions:

1. Briefly describe your academic/career journey.
2. Briefly describe any important experience or events that have led you to where you are.
3. Briefly describe your educational and/or career goals.
4. List any previous workforce development experiences you have participated in.

Application Questions:

5. Why do you believe it's important to take action to address climate change, particularly concerning the well-being and future resilience of Puerto Rico?
6. How do you think participating in the Milo Climate Action Academy will enable your career?
7. How did you find out about the Milo Climate Action Academy?

Program Timeline

Opening Soon
Applications Open

August 8, 2024
Application Closes

July 1, 2024
Rolling Acceptance Notices Begin

August 19, 2024
Program Begins

August 12, 2024
Last Day Acceptance Notices are Sent

November 18, 2024
Projects Due & Team Presentations Begin

December 2, 2024
Program Ends

December 16, 2024
Final Certificates Sent

Application

Participants will access the Milo Climate Action Academy website and be able to apply online until August 8 2024.

APPLY HERE

www.milomissionacademy.org/puerto-rico

For questions please contact:

kamorales@prsciencetrust.org

Students Apply Here!

Early-Career Apply Here!

Milo Space Science Institute
Arizona State University

Milo Space Science Institute
Arizona State University

RESEARCH GRANTS
funds to grow

Puerto Rico
Science, Technology
& Research Trust

THANK YOU

APPLY HERE