

NISE Net Online Workshop

Learn about an opportunity to participate in a sustainability fellowship in 2021/2022 – Part 2

Tuesday, February 9, 2021



Today's presenters:

Nich Weller, Arizona State University

Rae Ostman, Arizona State University

Katie Weber, Turtle Bay Exploration Park

Anjuli Grantham, Alaska State Museum

Kathryn Sinor, Evergreen Aviation & Space Museum

Christian Wong, Hawaii Science and Technology Museum



Welcome!

As we wait to get started with today's discussion, please:

Introduce yourself! Type your name, institution, and location into the Chat Box

Questions? Feel free to type your questions into the Chat Box at any time throughout the webinar or use the raise your hand function in the participants list and we'll unmute your microphone.

Today's discussion will be recorded and shared on nisenet.org at: nisenet.org/events/online-workshop



SUSTAINABLE FUTURES

Fellowship program

Agenda

The sustainability fellowship program

Presentations from past fellows

Application process and eligibility



Sustainability Fellowships

- **Purpose:** Support museums and similar cultural organizations in their efforts to integrate sustainability into their program and operations.
- **Approach:** Provide professional development and resources that share and develop sustainability science and practice.
- **Strategic outcome:** Leverage the power of museums around the world to help millions of people understand the social, environmental and economic impact of human behavior on the planet's future.



Sustainability means healthy people,
communities, and environments, now and in the
future

What will you do in the program?

1. Establish relationships with other museum professionals.
2. Share and learn key concepts in sustainability science and education, sustainability practices, and available tools and resources.
3. Develop project ideas with other fellows.
4. Outline a plan of action to implement a sustainability project.



Projects and experience of past fellows



Anjuli Grantham, Alaska State Museum

Christian Wong, Hawaii Science and Technology Museum

Katie Weber, Turtle Bay Exploration Park

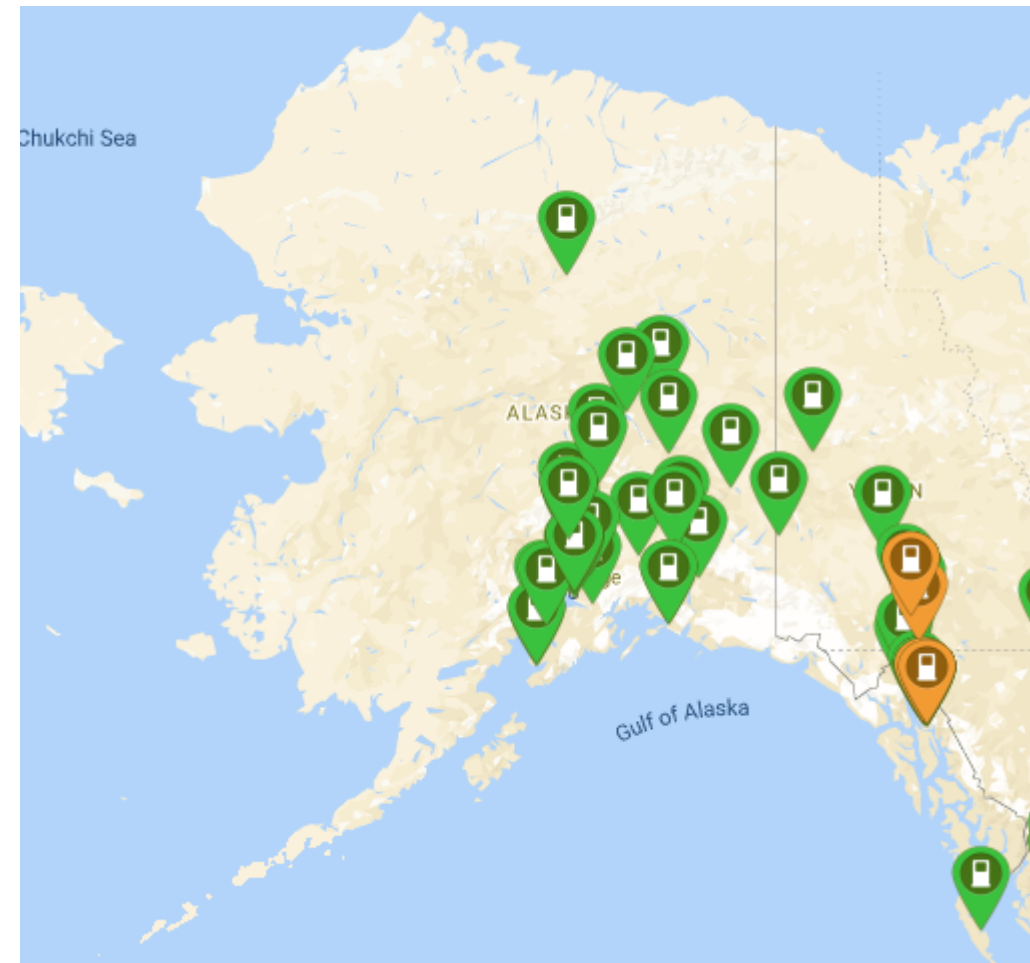
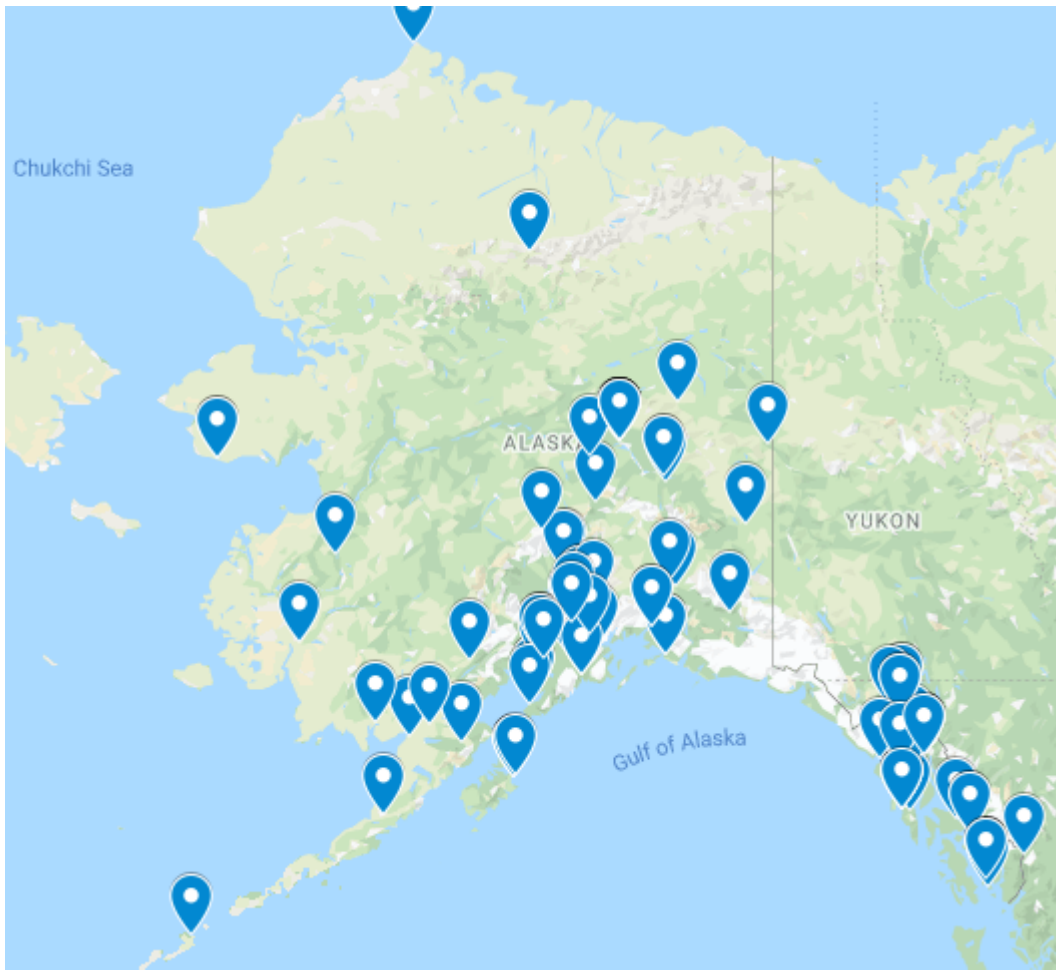
Kathryn Sinor, Evergreen Aviation & Space Museum





MusEVms: Connecting Alaska Museums with Electric Vehicle Charging Stations

ANJULI GRANTHAM, ALASKA STATE MUSEUM



Museums as Essential Transportation Infrastructure

On left: Museums in AK On right: EV charging stations in AK

What We Do for Alaskans:



Advocate for the EV owner and enthusiast community



Educate the public on all things electric vehicles



Support EV charging infrastructure development



Facilitate EV policy adoption at state and local levels



Promote EVSE investment throughout The Last Frontier

About the Alaska Electric Vehicle Association

Learn more at www.akeva.org

2. AKEVA assesses building's utility load and site suitability. If all checks out, AKEVA connects with a local electrician.

1. Museum takes photos of possible charging station locations, gathers electrical utility bill and shares with AKEVA.

3. AKEVA creates an installation plan, accesses funds for the charging station, and schedules installation.

4. EV charging station is installed at the museum!

Consultation and Installation Process

Museums undergoing EV consultation



Christian Wong

Hawaii Science and Technology Museum

Hilo, Hawaii

Local Products



Twitter: @HawaiiScience

Instagram: @HawaiiScienceMuseum

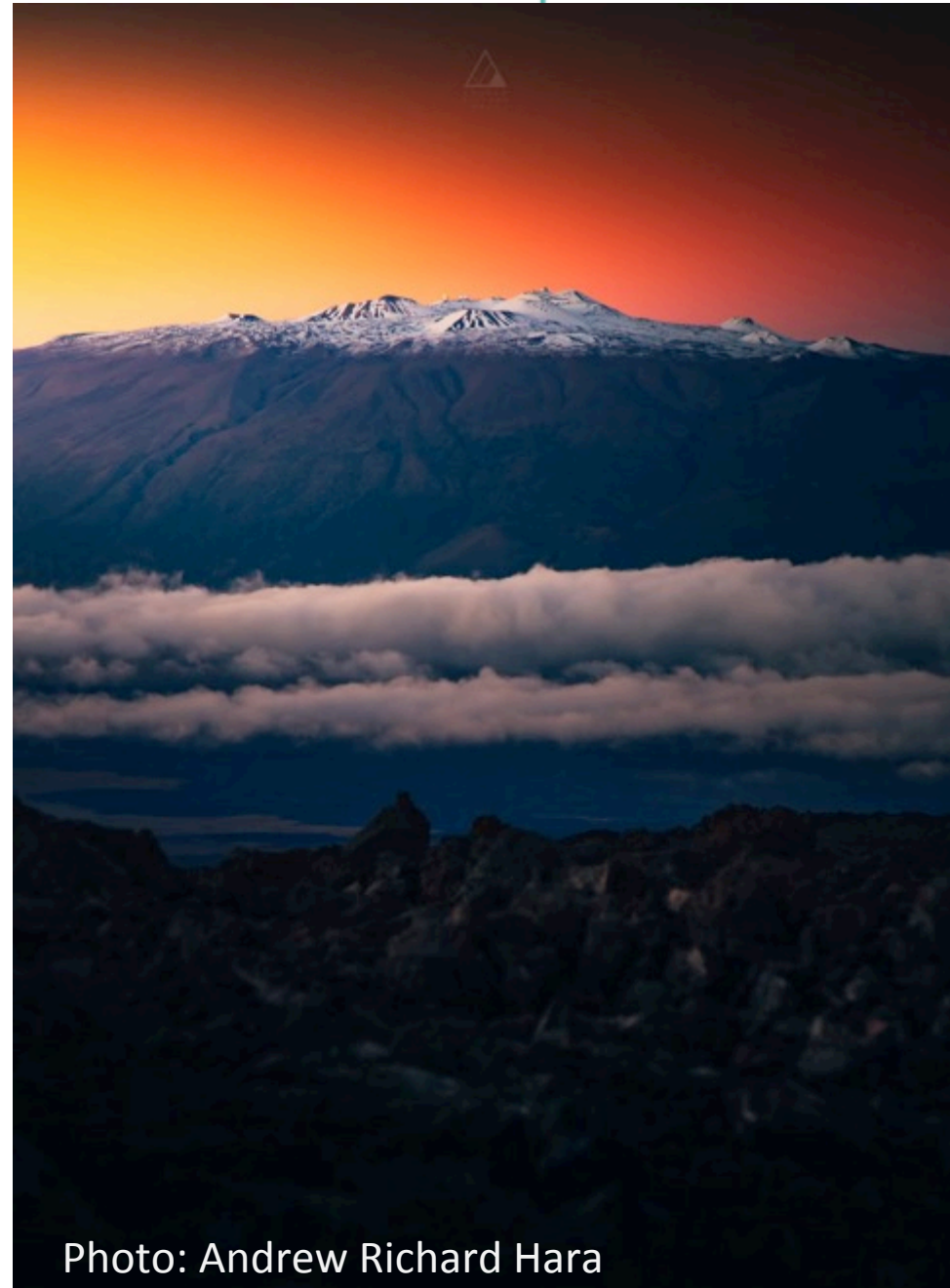


Photo: Andrew Richard Hara

Experience in the Fellowship



- Connected to other interested professionals in our community
- Built support in our organization for more sustainability programs
- Attract and connect with new followers with diverse interests



Project Goals and Activities

- Establish a coral nursery on site at a local middle school
- Teach families how to raise their own food through gardening and animal husbandry classes
- Bring the knowledge together with a cooking show featuring healthy, local products



Katie Weber
Turtle Bay Exploration Park
Redding, California
Accessible Programs &
Spaces



Experience in the Fellowship



- Inspired by past and current projects from around the world
- Connect with other professionals in the field
- Developed project through guided activities with peer support and feedback
- Received continued support and connection via check-ins



Project Goals and Activities

Accessible Programs & Spaces

- Goal: increase accessibility and inclusivity in park programs and facilities for individuals with physical and/or developmental impairments
- First Steps: develop focus group to identify and prioritize areas in need of change; integrate into Strategic Plan



EVERGREEN AVIATION & SPACE MUSEUM

Space, Technology,
and Astrobotany
Research Room
(STARR)

STARR's mission: to extend access to plant science education and environmental advocacy in order to increase awareness in the local community of sustainable food production methods, based on Earth and space plant growth systems.

Origin of the Project

- NISE Network
- Arizona State University's Sustainability Fellowship
September 2019
- “Community garden with a space twist”
- Connection to rural community



Origin of the Project

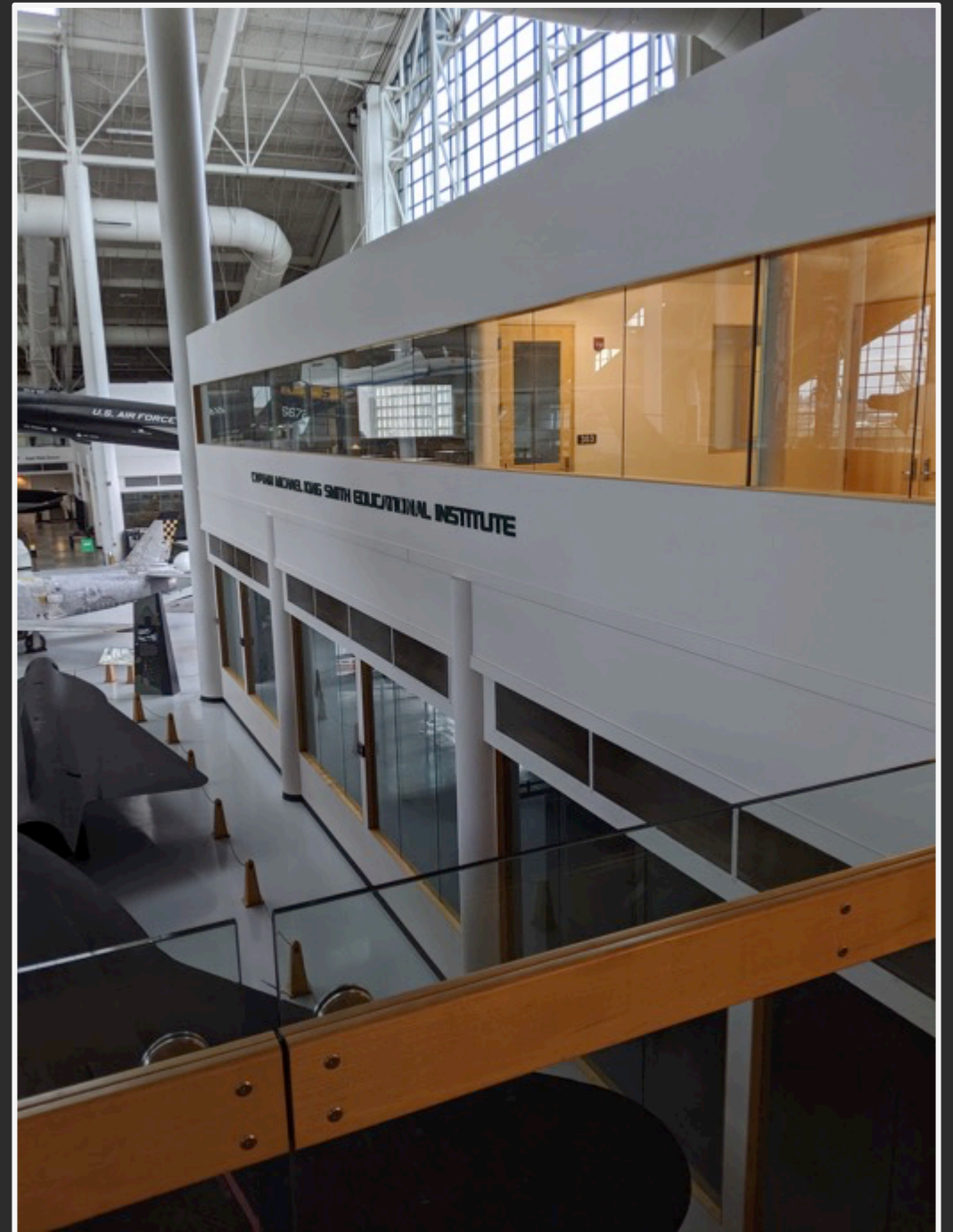
Space Plant Experiment



Hello! My name is Kathryn Sinor, and I am the Education Director at Evergreen Aviation & Space Museum. I have a bit of an odd request!

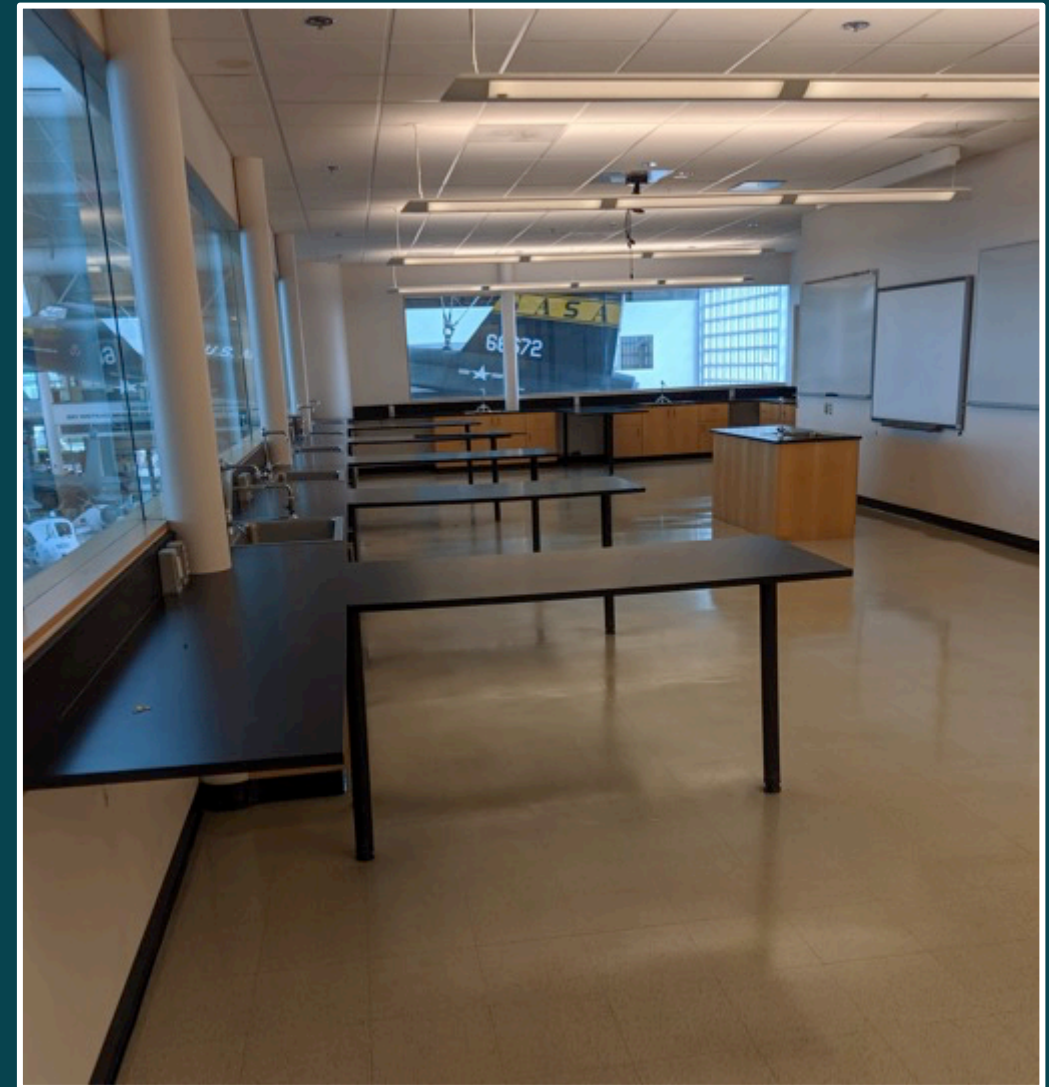
- Contacting Oregon State University's Botany Department
- Introduction to Marc and Elaine

The Room



Scope of the Project:

- Interactive Exhibit
- Utilize Hydro/Aeroponic systems
- Martian and lunar regolith systems
- Microscope/Plant anatomy Station
- Lots of experimentation!
 - pH/EC
 - From seed to harvest
 - Lighting/nutrients



- Sustainability education within museum -- plans to open on Earth Day's 50th anniversary in April

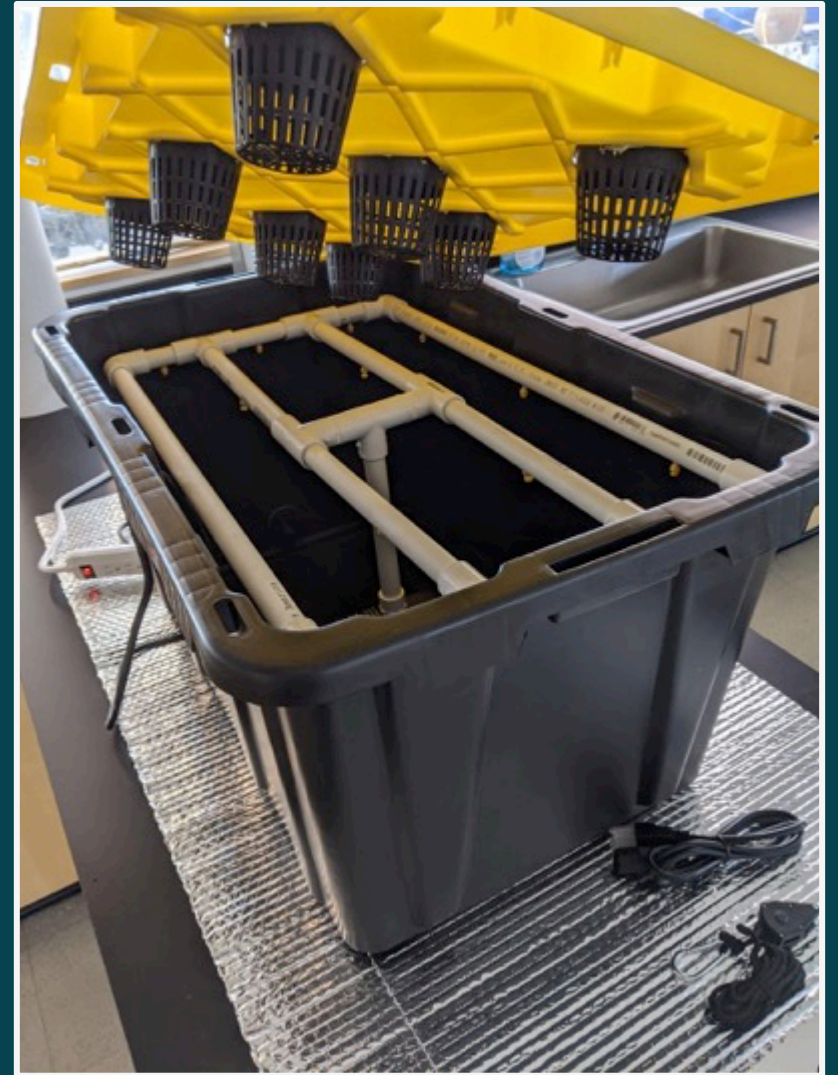
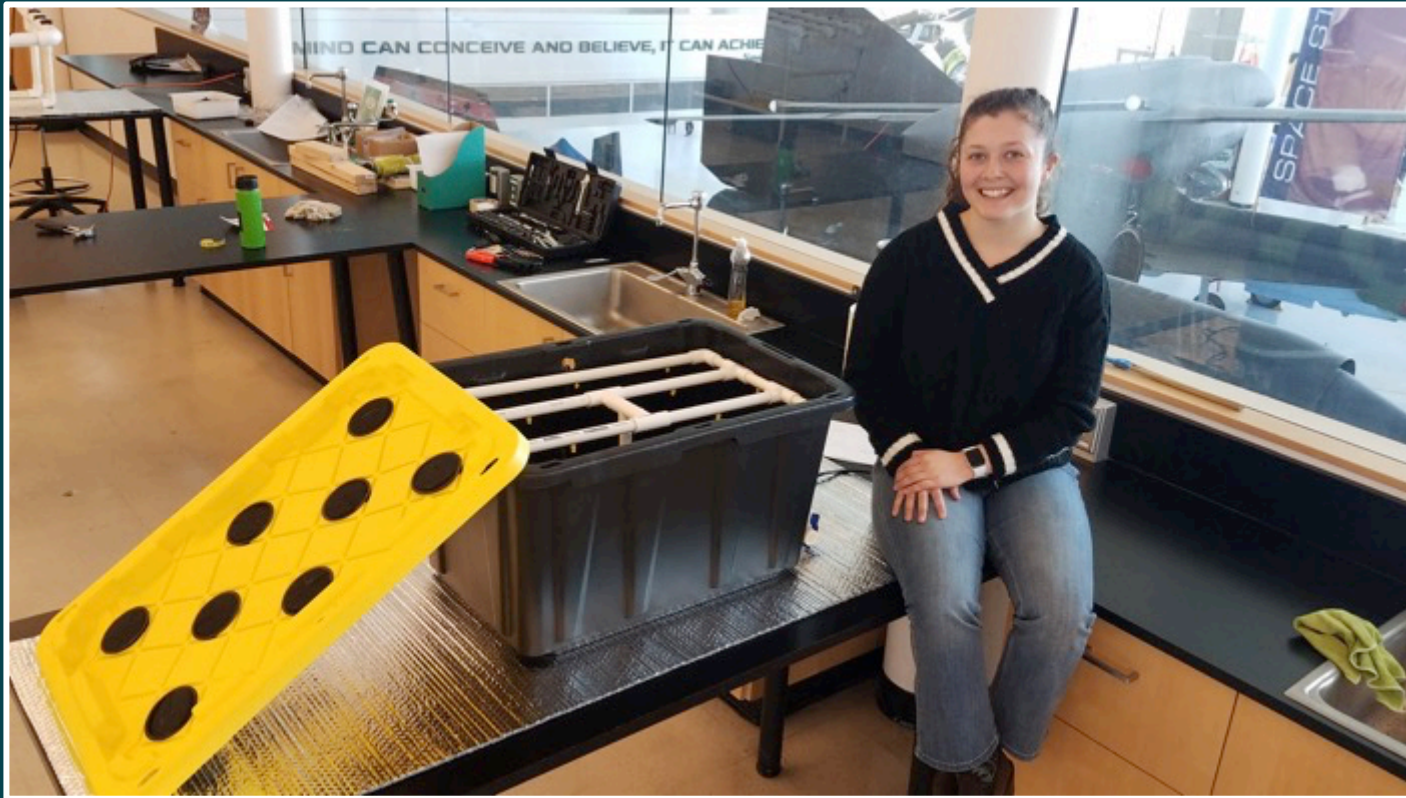
Systems:

- Built two Non-Invasive Film Technique (NIFT) Systems



Systems:

Aeroponic:



Experimental/Regolith Stations:



Microscope station and Terrariums:

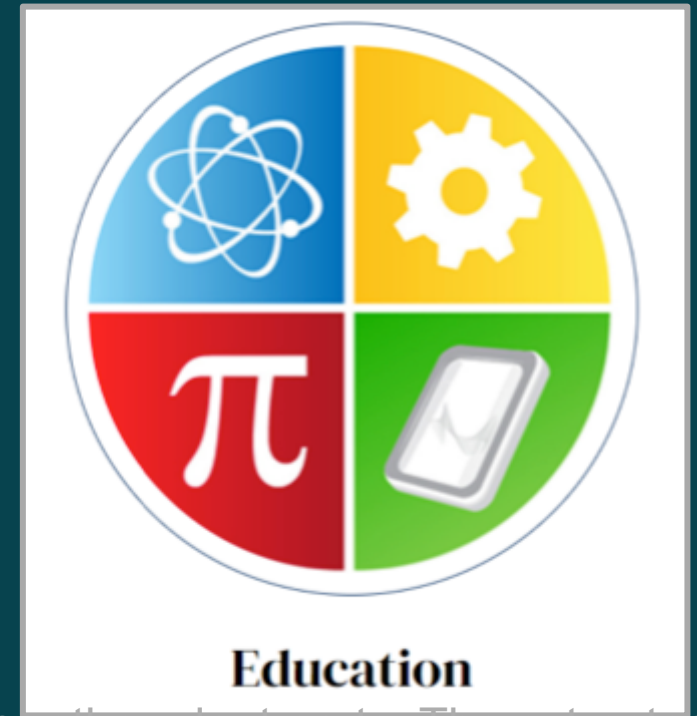


Lesson Plans:

Example:

Plants and Culture: Throughout history, people of diverse cultures have used plant materials for pigments (natural dyes), fiber (paper, cloth), medicines, food, furniture and shelter (wood)

An example activity is to extract pigments, such as chlorophyll, from leaves or other plant parts. The extracted pigments can then be used for painting or dyeing fabric.



Thank you!



Questions for the past fellows?

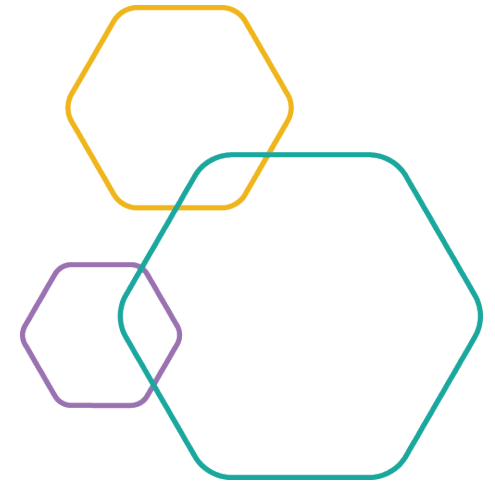
Program requirements

- Online workshop, organized into nine 90-minute sessions over approximately one month
- Community of practice, includes online collaboration and five follow up sessions after the workshop.
- Sustainability project, developed to meet your organization's mission and priorities.
- Online report and online evaluation survey
- Optional participation in research associated with the program.
- Details at <https://www.nisenet.org/sustainability-fellowship>



Program stipend

- Receive \$1,500 in participant support, payable to your institution, for use at your discretion for staff time, materials, etc.





Cohort timing

- Cohort D: May – November 2021
- Cohort E: September 2021 – May 2022
- Cohort F: January – July 2022

All online sessions are held on Wednesdays and Fridays, 2-3:30pm ET.

Eligibility

- Museum professionals currently employed by an eligible organization in the United States.
- Eligible organizations are those defined by IMLS as museums.

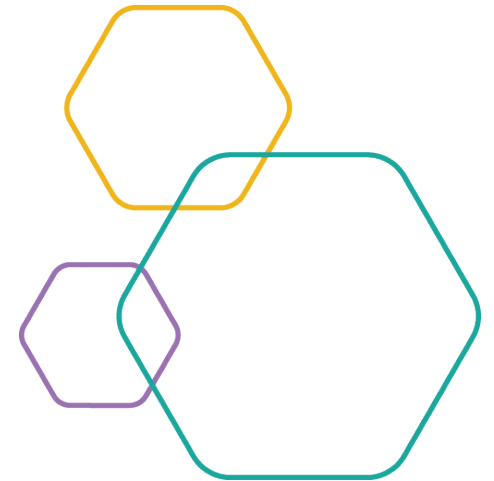
Eligibility

- One or two people as a team can apply to participate.
- Participating organizations will only receive one stipend, regardless of whether one or two individuals take part in the program.
- We have no preference if you apply as a team or individual.
- See website for details on repeat fellowships.

Application

Due March 1, 2021 via Google form

- Three major sections:
- Information about you
- Information about your organization
- Questions about why you are interested



Contact info



Primary contacts for programmatic questions:

Rae Ostman, rostman@asu.edu

Nich Weller, naweller@asu.edu

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Thank You



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