STEM ENGAGEMENT IN COLLABORATION WITH MUSEUMS AND SCIENCE CENTERS

ASTC WEBINAR PANEL DISCUSSION

Kris Brown
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July 19, 2022
VISION
We immerse students in NASA’s work, enhance STEM literacy, and inspire the next generation to explore.

MISSION
We engage students in NASA’s mission.

Strategic Goals

Create unique opportunities for a diverse set of students to contribute to NASA’s work in exploration and discovery.

Build a diverse future STEM workforce by engaging students in authentic learning experiences with NASA’s people, content, and facilities.

Attract diverse groups of students to STEM through learning opportunities that spark interest and provide connections to NASA’s mission and work.

Increased emphasis on diversity, equity and inclusion
1. **Expand NASA contributions in engaging K-12 students in STEM pathways**, with an approach toward a continuum of experiences.

2. **Implement strategies to broaden student participation to increase diversity, equity, and inclusion in STEM through NASA opportunities and activities.**

3. **Continue to build productive strategic partnerships and networks**, expanding NASA’s STEM ecosystem to magnify reach and impact.
STEM Engagement Continuum

Key Elements Moving Forward:

- Evidence-based opportunities that attract students (Gr K-5)
- Accessible and engaging opportunities that enable STEM pathways (Gr K-8)
- Immersive, experiential learning that leads to STEM pursuits (Gr 9-12)
- Experiences to support successful workforce entry (Higher Ed)
- Strategies to broaden student participation at all points along the continuum
- Partnerships and networks to build essential connections to the STEM ecosystem

Attracting students is the foundation of a successful model to build a diverse future STEM workforce
NASA STEM Engagement K-12 Framework

K-12 STEM Engagement Continuum

Grades K-4

- Accessible, low barrier to entry classroom and out-of-school activities
- Informal education programs

Grades 5-8

- Classroom activities
- Out-of-school activities
- Competitions
- Camps and informal education programs
- Student engagement

Grades 9-12

- Capstone projects
- Challenges and competitions
- H.S. internships
- Student engagement

Student STEM Pathways

NASA STEM Workforce & Subject Matter Experts (SMEs) Cohort

NASA Spectrum of Student Learning Opportunities

Educator and Institution Communities
Next Gen STEM

Reaching students *where they are* using NASA's Missions, content, people, and facilities

**K-12 Initiatives**

*Where?* In school, after school, informal education institutions, and at home

*What?* An integrated portfolio of products, experiences, challenges, and competitive awards that spans educational levels and reduces barriers to entry

www.nasa.gov/stem/nextgenstem
NASA CONNECTS COMMUNITY OF PRACTICE

An online, professional learning community for educators to collaborate with each other and NASA.

- Join Discussions & Connect With Others
- Ask Questions & Get Answers
- Share & Discover New Best Practices
- Download Free STEM Products
- Learn About Upcoming Events
- See The Latest Opportunities
- Museum & Informal Education Alliance
Competitive, national award program for informal education institutions

- Projects focus on NASA missions & topics that support NASA STEM & missions
- Community Anchor Awards (added in 2021) position the awarded institutions as a local community resource for NASA Informal Education

Community of practice for informal science educators

- Expert live briefings, webinars, resource library, community forum, direct assistance

Full TEAM II Awards
Fewer, larger awards
20 active

Community Anchor Awards
More, smaller awards
21 active

NASA Museum and Informal Education (MIE) Alliance
1300+ orgs
The MIE Alliance offers a full calendar of NASA-related events, opportunities and anniversaries for everyone to browse, search, share, or subscribe to.

To learn more, visit https://go.nasa.gov/mie-alliance

NASA CONNECTS to become the new host for the Alliance, its resources, and member engagement.
NASA Teams Engaging Affiliated Museums and Informal Institutions (TEAM II) is a competitive funding opportunity for NASA-related projects at museums, libraries, and youth serving organizations.

New TEAM II Standard Awardees were announced in January and June 2022.

For future opportunities, visit:

NASA TEAM II Grant Forecasting | NASA
**NASA TEAM II COMMUNITY ANCHOR AWARDS**

- New designation and NOFO element – first cohort started in February 2022; 21 sites in 16 states announced:
  - Enables awarded institutions to:
    - Establish themselves as a **new or emerging** local NASA STEM informal education community resource
    - **Implement authentic NASA STEM experiences** that benefit a diverse audience in their local community
    - Participate in a NASA Informal Education **Learning Cohort**, which is managed by NASA’s MIE Alliance and connects awardees to NASA STEM engagement resources and personnel
- Awardees have significant and successful direct service in delivery of STEM in primarily underserved areas

- 2021-2023 TEAM II Notice of Funding Opportunity (NOFO) projected during Fiscal Year 2022 Quarter 4 (July-September) for 2022 Community Anchor Awards for TEAM II (TEAM II-ANCHR)

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For more information, please contact:

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Or learn more at: [https://go.nasa.gov/team-ii](https://go.nasa.gov/team-ii)
Blue: Community Anchor awardees (21)
Burgundy: Full TEAM II active awardees (20)
Campaign timeframe: August 8-26

Week 1: Teach
Content and opportunities for teachers

Week 2: Learn
Content for students

Week 3: Join
Opportunities and experiences

Back to School 2022
CONNECT WITH NASA STEM ENGAGEMENT

Visit stem.nasa.gov

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pinterest.com/nasa/nasa-stem/

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NASA STEM ENGAGEMENT HIGHLIGHTS 2021

Scan the QR code to download the full report.