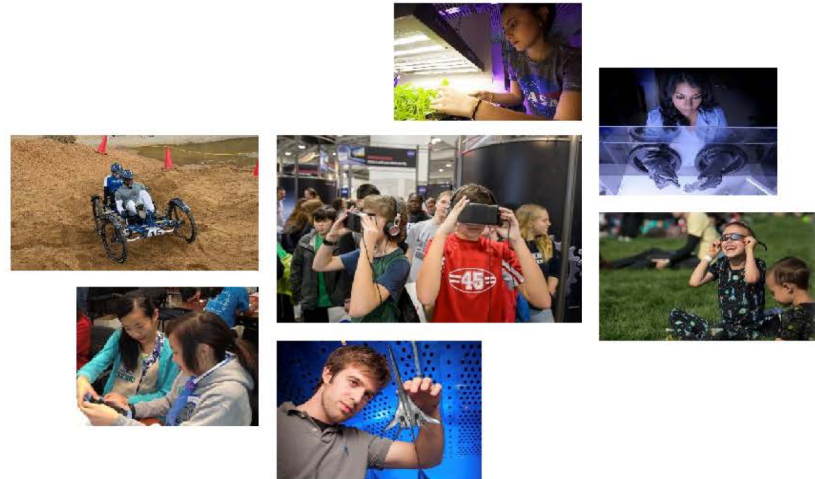


S T E M INSPIRE - ENGAGE - EDUCATE - EMPLOY The Next Generation of Explorers



**NASA Strategy for Science, Technology,
Engineering and Math (STEM) Engagement
2018 – 2020**

NEW ARCHITECTURE ENABLING STUDENT OPPORTUNITIES & CONTRIBUTIONS



Evidence-based strategies

Rigorous planning



Integrated operational model

FOCUS AREAS

Create unique opportunities for students to contribute to NASA's work.

Build a diverse future STEM workforce by engaging students in authentic learning experiences.

Strengthen understanding of STEM by enabling powerful connections to NASA's mission and work.

Strategic, balanced portfolio

NASA-unique learning experiences



Student contributions to NASA's work in action

SCALABILITY TO MAGNIFY NASA'S REACH AND IMPACT

K-Elementary School



Middle School



High School



Undergraduate



Graduate



BENEFICIARIES OF NASA'S
STEM ENGAGEMENT PORTFOLIO

NASA STRATEGY FOR STEM ENGAGEMENT

The *NASA Strategy for Science, Technology, Engineering and Math (STEM) Engagement* serves as a roadmap to frame and guide the agency's work in STEM engagement over the next 3 years.

Beneficiaries of NASA's STEM Engagement Portfolio



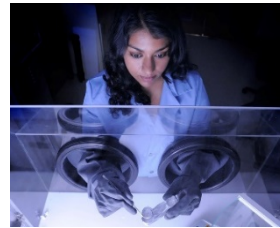
Elementary



Middle School



High School



Undergraduate



Graduate

STEM engagement is comprised of a broad and diverse set of programs, projects, activities and products developed and implemented by HQ functional Offices, Mission Directorates and Centers.



NASA Strategy for Science, Technology, Engineering and Math (STEM) Engagement

2018 – 2020



Approved by the NASA STEM Engagement Council
August 22, 2018



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NASA STRATEGY FOR STEM ENGAGEMENT

FOCUS AREAS

Enable contributions to NASA's work

Build a diverse, skilled, future workforce

Strengthen STEM through connections to NASA



OBJECTIVES

- Mission-driven student contributions
- Building our pipeline
- Connecting with students







STRATEGIES

- Strategies toward achieving 8 objectives aligned with Vision focus areas



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NASA STRATEGY FOR STEM ENGAGEMENT

FOCUS AREAS

OBJECTIVES


Enable
contributions to
NASA's work



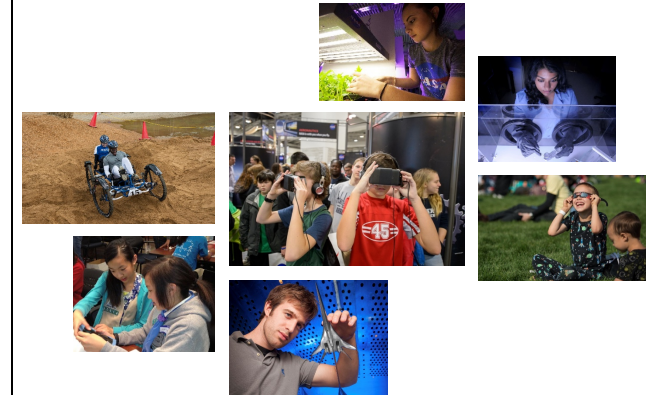
- Students contribute to NASA's endeavors in exploration and discovery.
- Research and development capacity of educational institutions is enhanced, enabling broad and diverse contributions that directly address NASA priorities.

Build a diverse,
skilled, future
workforce

Strengthen
STEM through
connections to
NASA


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NASA STRATEGY FOR STEM ENGAGEMENT

FOCUS AREAS

OBJECTIVES

**Enable
contributions to
NASA's work**

**Build a diverse,
skilled, future
workforce**

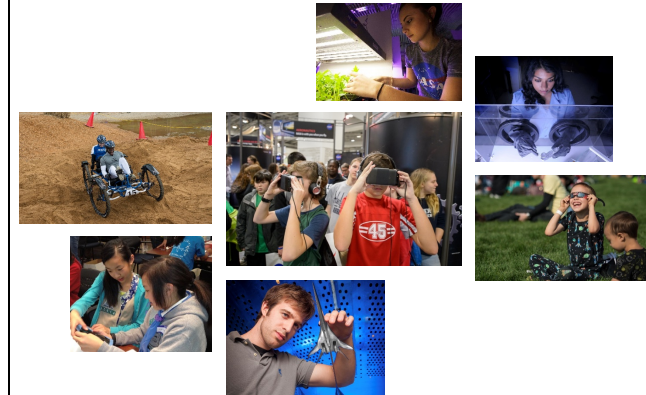
**Strengthen
STEM through
connections to
NASA**



- Broad and diverse set of students are attracted to STEM through NASA opportunities.
- Students, including underrepresented and underserved communities, explore and pursue STEM pathways through authentic learning experiences and research opportunities with NASA's people and work.
- The portfolio of NASA STEM engagement opportunities meets agency workforce requirements and serves the nation's aerospace and relevant STEM needs.
- Strategic partnerships with industry, academia, non-profit organizations and educational institutions enhance and extend the impact of NASA's efforts in STEM engagement.

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NASA STRATEGY FOR STEM ENGAGEMENT

FOCUS AREAS

OBJECTIVES

Enable
contributions to
NASA's work

Build a diverse,
skilled, future
workforce

Strengthen
STEM through
connections to
NASA



- Youth are introduced to STEM concepts and content through readily available NASA STEM engagement resources and content.
- Students gain exposure to STEM careers through direct and virtual experiences with NASA's people and work.



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The Next Generation of Explorers