National Aeronautics and Space Administration

STEM Symposium Sessions Webinar

PRESENTED BY

LESLEY FLETCHER AND CINDY HASSELBRING

Jan 10,2025
Updated April 2025

NASA STEM

STEM Symposium

Building America's STEM Workforce:
Charting the Path Forward through Collaboration

When: August 5-7, 2025

Location: Kennedy Space Center (KSC) Visitor Complex, Merritt Island, Florida

Audience: Institutions of Higher Education, Government Agencies, Aerospace Industry, and STEM Ecosystem Leaders

Objective: Identify and apply collaborative efforts to successfully map America's future STEM workforce

NASA STEM INSPIRE - ENGAGE - EDUCATE - EMPLOY
The Next Generation of Explorers

stem.nasa.gov

STEM Symposium 2025 Tracks

Embracing AI and Emerging Technology

This track delves into the exploration of innovative technology tools, focusing on ethical considerations and effective integration into projects and processes to build a capable STEM workforce.

Proposal Example:
AI-enhanced Educational Tools: Bridging Gaps in STEM Learning

Description: AI-driven tools that enhance learning for diverse STEM workforce.

Key Takeaways: AI educational tools, implementation strategies, and impacts on the STEM ecosystem.

Agile Pathways to STEM Fields

This track explores how agile methodologies can enhance America's STEM learners preparing them for careers in high-tech industries.

Proposal Example:
Reusable Rocket Boosters Utilizing Sprints

Description: Company XYZ works with universities on a project-based learning program where students design and build reuseable rocket boosters. The project is structured into multiple agile sprints (propulsion design, structural integrity, recovery). Teams are cross-functional and receive regular feedback.

Key Takeaways: Agile learning applied through short, focused sprints with continuous feedback to refine designs.

Mapping Innovation

This track focuses on strategic models for technology development and deployment, emphasizing innovative technologies, collaborative practices, and future-ready strategies to advance the aerospace sector and prepare the American STEM workforce.

Proposal Example:
Leveraging Career Technical Education (CTE) to Build the Future Aerospace Workforce

Description: A focused and strategic approach to CTE between high schools, community colleges, industry, and government; cultivating a new generation of skilled professionals ready to meet the demands of the aerospace sectors.

Key Takeaways: Identifying skill gaps, practical knowledge of CTE, workforce shortages, and strategies for building collaborative partnerships.

Space Research to STEM Pathways

This track highlights how space research drives innovation and inspires future scientists, engineers, and explorers. Proposers are also encouraged to submit research topics with potential applications for STEM activities.

Proposal Example:
Galactic Innovations: How Space Commercialization Drives STEM Engagement

Description: Collaboration between space company XYZ and educational institutions to develop STEM workshops and internships. Integrates XYZ's satellite technology research into the curriculum, providing students with hands-on experience with cutting-edge technologies.

Key Takeaways: Real-world applications of industry-related skills.

Objectives

Cultivate Strategic Partnerships

Facilitate the development of meaningful, long-term partnerships to leverage capabilities.

Foster STEM Innovation

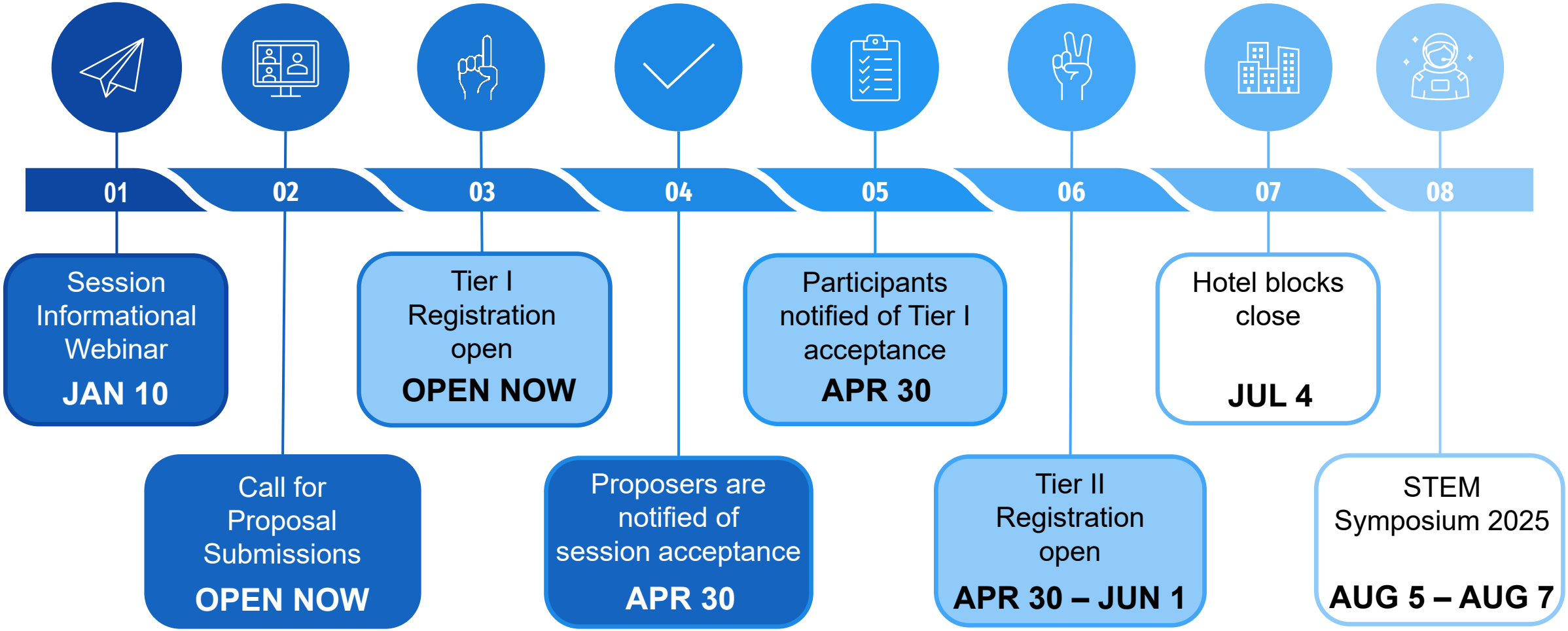
Encourage the sharing of best practices and innovative ideas within the STEM ecosystem.

Amplify STEM Opportunities

Provide updates on the latest aerospace trends, research, and developments which enable impactful STEM connections.

The Road to the STEM Symposium 2025

https://spacegrant.org/stem-symposium/



Session Logistics

- Lead presenters can request to facilitate a panel (allowing more than three presenters). ALL presenters and/or panelists need to register and be approved to participate.
- **Note - Symposium registration is a separate process from this session proposal form and will open in March 2025. Please check the STEM Symposium website for updates.**
- Rooms will be equipped with laptops, screens, sound, Wi-Fi, and either classroom style seating or small round tables.
- Sessions are each one hour long and must align with the objectives and tracks outlined later in this form.
- You will receive an email summary of your responses, which will give you a link to edit your responses.
- You will be able to edit this session proposal until they close.
- **The proposal submission deadline has been extended, click here to submit a proposal.**

Session Proposal Form

STEM Symposium Session Proposal Form

Thank you for your interest in the **STEM Symposium** (Building America's STEM Workforce: Charting the Path Forward through Collaboration) taking place on **August 5-7, 2025** at **Kennedy Space Center**. We anticipate a wide variety of stakeholders will participate - academia, non-profit organizations, informal education, industry partners, government, and more. This form will collect details for your proposed session at the symposium. Due to space limitations,
each session can have a lead presenter and up to two additional co-presenters. Lead presenters can request to facilitate a panel (allowing more than three presenters). ALL presenters and/or panelists need to register and be approved to participate.

Note - Conference registration is a separate process from this session proposal form and will open in March 2025. Please check the STEM Symposium website for updates.

Rooms will be equipped with
laptops, screens, sound, Wi-Fi, and either classroom style seating or small round tables. Sessions are each one hour long and must align with the objective(s) and track(s) outlined later in this form. You will be able to edit this session proposal until the deadline.

The proposal submission deadline is 5 pm EST, Sunday, March 2, 2025.

*For questions about the **STEM Symposium, including registration**, please email our team at **hq-stemsymposium@mail.nasa.gov**.*

*For questions about **STEM Symposium session proposals specifically**, please contact **Cindy.L.Hasselbring@nasa.gov**.*

Switch account

* Indicates required question

Email *

Your email

First name of lead presenter *

Your answer

Last name of lead presenter *

Your answer

Do you work for NASA (to answer yes, you must be a NASA civil servant or NASA contractor)? *

- ◯ Yes
- ◯ No

Next Page 1 of 6 Clear form

NASA/Contractors

NASA Employee Lead Presenter Information

NASA lead presenter's affiliation to NASA *

- [ ] Space Grant
- [ ] EPSCoR
- [ ] MUREP
- [ ] Next Gen STEM
- [ ] NASA mission directorate or office (not OSTEM)
- [ ] Performance & Evaluation
- [ ] Partnerships
- [ ] NASA STEM Gateway
- [ ] Internships
- [ ] Digital Tools and Platforms
- [ ] NASA OSTEM (but not part of a project or functional area)
- [ ] Other:

NASA lead presenter position title *

Your answer

NASA lead presenter e-mail address *

Your answer

NASA lead presenter cell phone *

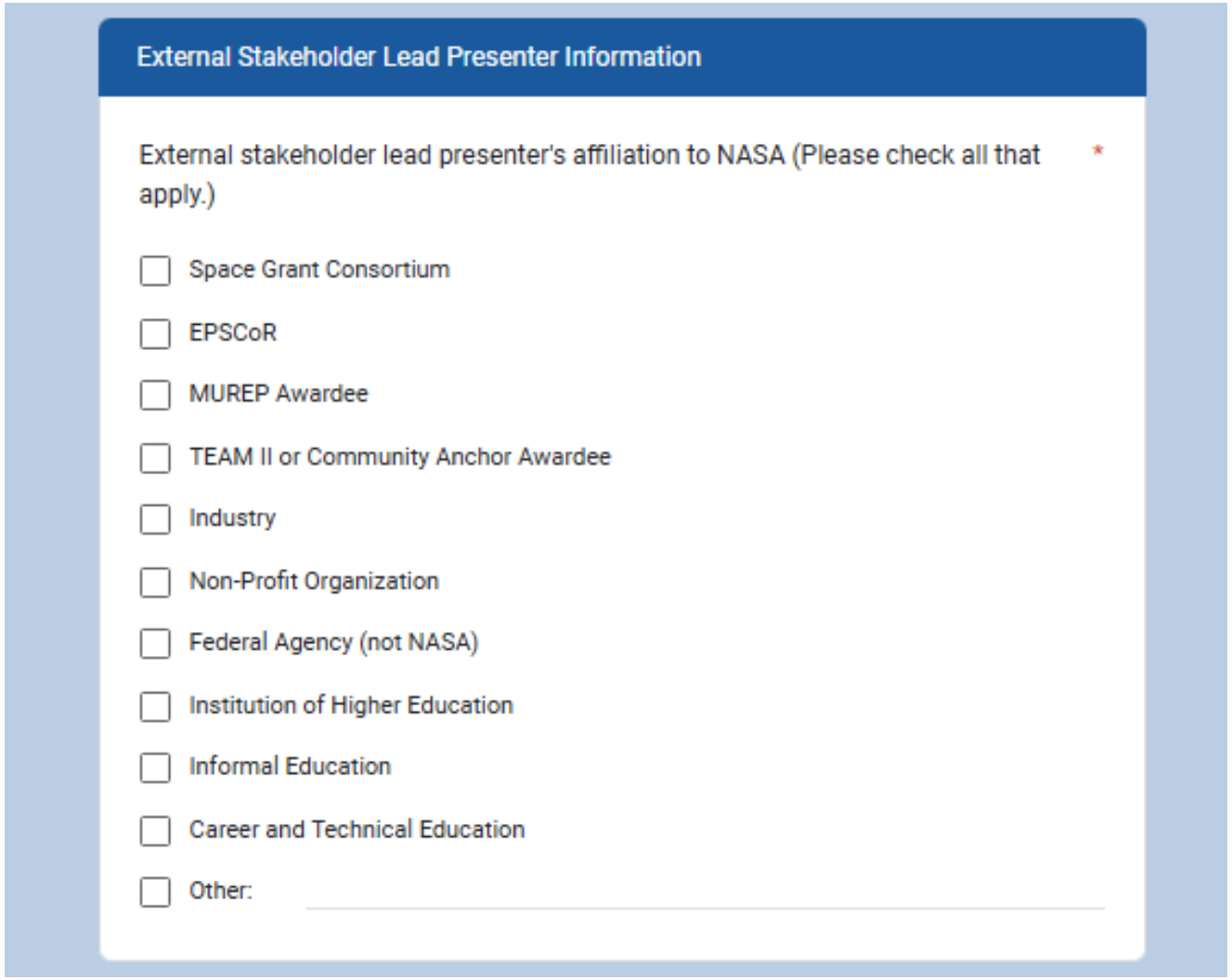
Your answer

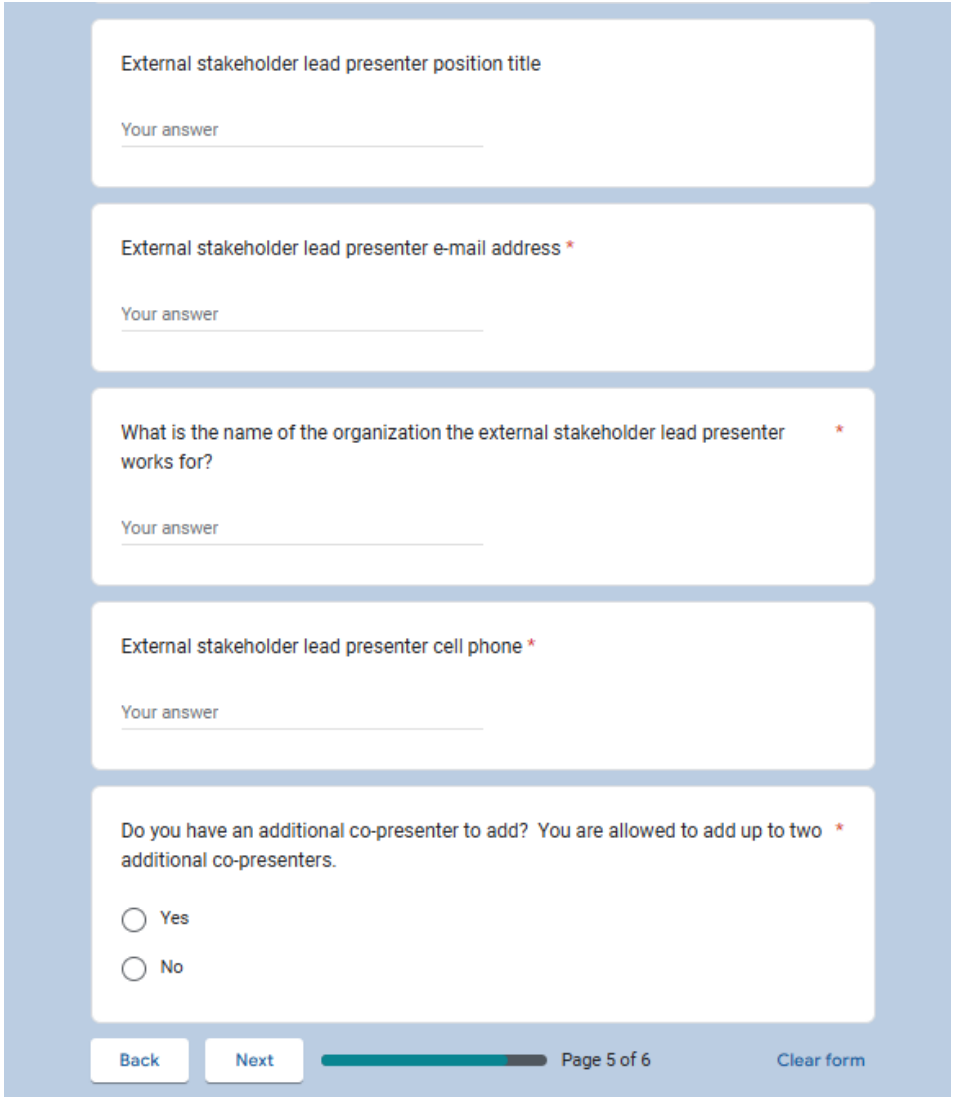
Do you have an additional co-presenter to add? You are allowed to add up to two additional co-presenters. *

- ( ) Yes
- ( ) No

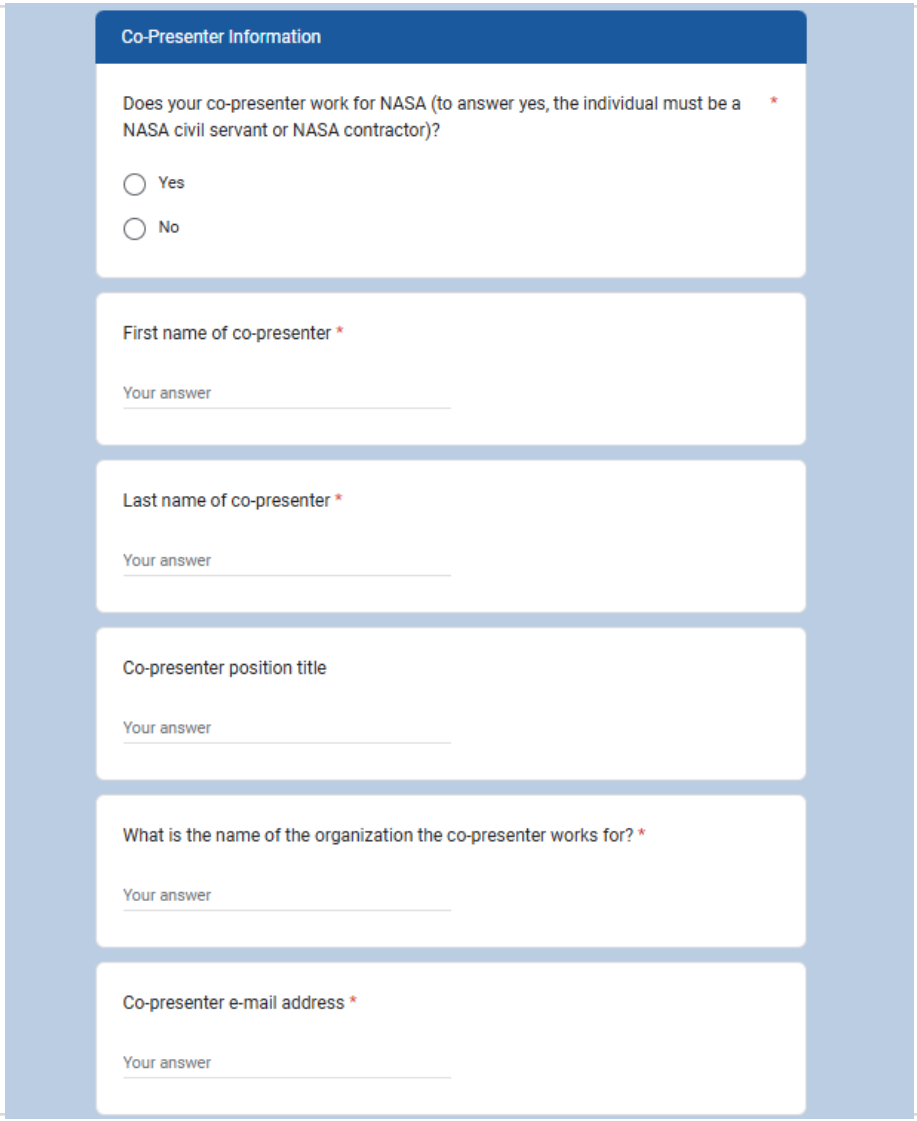
Back Next Page 2 of 6 Clear form

External to NASA





Co-Presenter Information



Co-Presenter Information

Does your co-presenter work for NASA (to answer yes, the individual must be a NASA civil servant or NASA contractor)? *

- Yes
- No

First name of co-presenter *

Your answer

Last name of co-presenter *

Your answer

Co-presenter position title

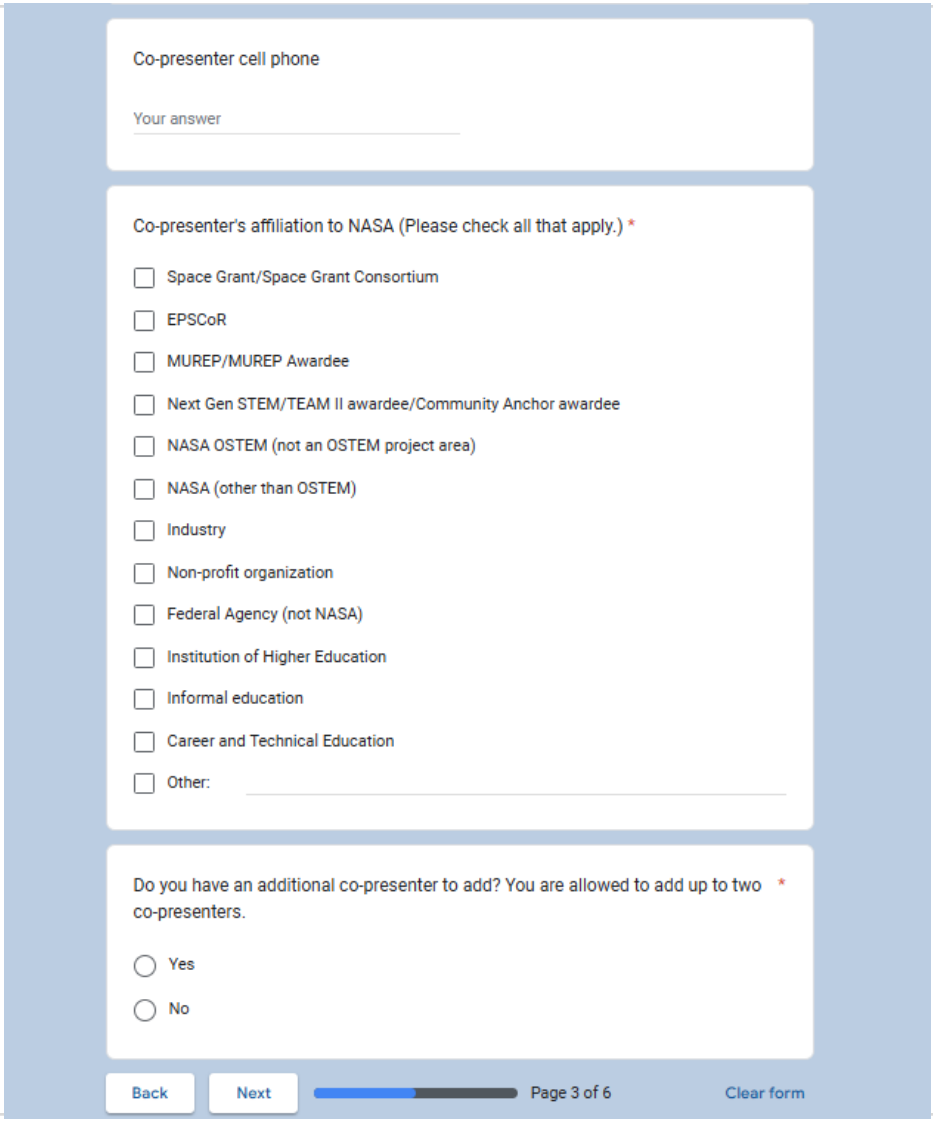
Your answer

What is the name of the organization the co-presenter works for? *

Your answer

Co-presenter e-mail address *

Your answer



Co-presenter cell phone

Your answer

Co-presenter's affiliation to NASA (Please check all that apply.) *

- Space Grant/Space Grant Consortium
- EPSCoR
- MUREP/MUREP Awardee
- Next Gen STEM/TEAM II awardee/Community Anchor awardee
- NASA OSTEM (not an OSTEM project area)
- NASA (other than OSTEM)
- Industry
- Non-profit organization
- Federal Agency (not NASA)
- Institution of Higher Education
- Informal education
- Career and Technical Education
- Other:

Do you have an additional co-presenter to add? You are allowed to add up to two co-presenters. *

- Yes
- No

Back Next Page 3 of 6 Clear form

STEM Symposium Session Proposal

Breakout session rooms will be equipped with laptops, screens, sound, wifi, and either classroom-style seating or small round tables. Sessions are one hour long and must align with the objectives and tracks outlined below. You will be able to edit this session proposal prior to the deadline (**Sunday, March 2, 5:00 pm EST**).

All sessions will be 60 minutes in length. All session proposals are required to be aligned to one track and at least one objective. You will be have an opportunity to propose a panel in the questions below. All presenters and panelists are required to register (symposium registration is a separate process) and must be accepted to participate in the STEM Symposium. In your proposal, be sure to include how you will provide an engaging presentation that encourages collaboration and input from the participants.

What is the title of your proposed session? *

Your answer

What STEM Symposium track(s) does your session align to? Select all that apply. *

- [ ] Track 1: Embracing AI and Emerging Technology - This track delves into the exploration of innovative technology tools, focusing on ethical considerations and effective integration into projects and processes to build a capable STEM workforce.
- [ ] Track 2: Agile Pathways to STEM Fields - This track explores how agile methodologies can enhance America's STEM learners preparing them for careers in high-tech industries.
- [ ] Track 3: Mapping Innovation - This track focuses on strategic models for technology development and deployment, emphasizing innovative technologies, collaborative practices, and future-ready strategies to advance the aerospace sector and prepare the American STEM workforce.
- [ ] Track 4: Space Research to STEM Pathways - This track highlights how space research drives innovation and inspires future scientists, engineers, and explorers. Proposers are also encouraged to submit research topics with potential applications for STEM activities.
- [ ] Other:

Which of the following objectives does your proposal align to? Select all that apply. *

- [ ] 1. Cultivate Strategic Partnerships - Facilitate the development of meaningful, long-term partnerships to leverage capabilities.
- [ ] 2. Foster STEM Innovation - Encourage the sharing of best practices and innovative ideas within the STEM ecosystem.
- [ ] 3. Amplify STEM Opportunities - Provide updates on the latest aerospace trends, research, and developments which enable impactful STEM connections.
- [ ] Other:

Is your proposed session for a presenter and/or co-presenters or are you proposing to use a panel format? If proposing to use a panel, please briefly describe the nature and purpose of the panel and identify all proposed panelists with their full name, organization and work title. If you are not planning to host a panel, please skip this question without responding.

Your answer

Please provide a description of your presentation detailing content, activities and strategies you will use to engage your participants (e.g. small group discussions, "sticky note" activity, etc.). (3,000 maximum character count) *

Your answer

Briefly describe three or more benefits of this presentation that will be of value to STEM Symposium participants. (2,000 maximum character count) *

Your answer

A copy of your responses will be emailed to the address you provided.

Back Submit Page 6 of 6 Clear form

Never submit passwords through Google Forms.

Rubric

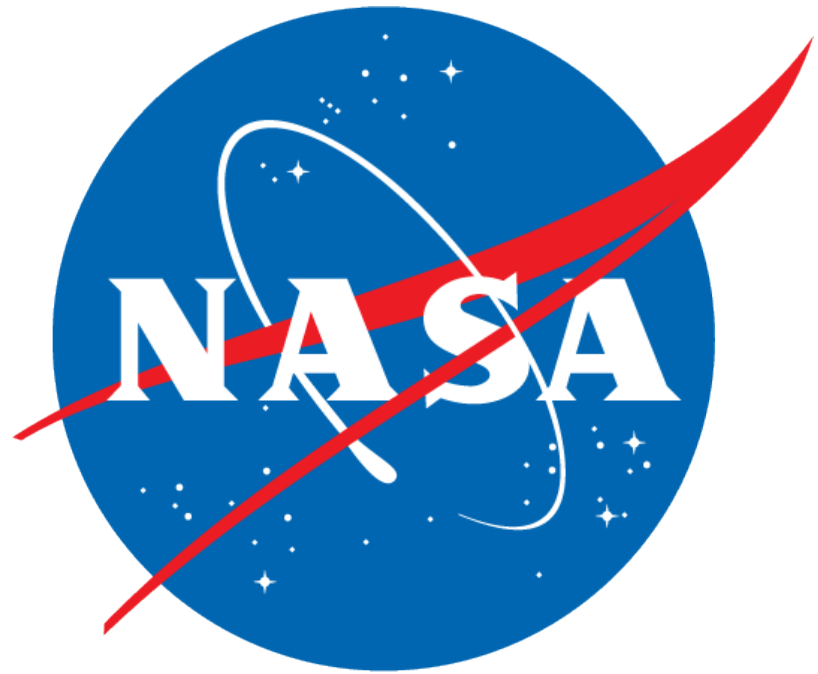
	EXCELLENT	GOOD	POOR
COMPLIANCE: *Completeness of Proposal*	Thoroughly addresses all proposal elements; Needs no additional information	Addresses most proposal elements; Needs minimal additional information or clarification	Addresses minimal proposal elements; Needs significantly more information to make a valid determination
FORMAT: *Approach Effectiveness; Level of Interaction and Engagement*	Framework and delivery strategy are very well-thought out; Demonstrates high-level interaction and audience engagement; Employs various techniques that support diverse learning styles	Framework and delivery strategy are sufficient; Demonstrates moderate interaction and audience engagement; Employs at least two techniques that support diverse learning styles	Framework and delivery strategy are not well-defined or comprehensive; Demonstrates little or no interaction and audience engagement; Does not employ multiple techniques to support diverse learning styles
OBJECTIVE ALIGNMENT: *Connection to the conference objectives*	Strong connection to one or more objectives is clearly described	Sufficient connection to one or more objectives is clearly described	Connection to objective(s) is vaguely described, unclear, or absent
TRACK ALIGNMENT: *Relevance and Potential Impact*	Strong contribution to the intent of the track(s) is clearly described	Sufficient connection to the intent of the track(s) is clearly described.	Connection to the intent of the track(s) is vaguely described, unclear, or absent
AUDIENCE BENEFIT: *Value of the session to intended audience*	Clearly states 3 or more benefits for participants	Clearly states at least 1 benefit for participants	No clear benefits stated for participants

Additional Information, Periodic Updates

For future updates, check out the STEM Symposium landing page:
https://spacegrant.org/stem-symposium/

*For questions about the **STEM Symposium,** please email our team at*
hq-stemsymposium@mail.nasa.gov

Center for Space Education Building at KSC Visitor Complex


NASA