

# NASA STEM Gateway Evaluation Surveys

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# NASA STEM Gateway Evaluation Surveys

## EVALUATION SURVEYS

### 1. Standard Welcome Page & Participation Decision – ALL Surveys

**1. All surveys that are sent to an activity participant, (both Student and Educator) will be provided with a standardized welcome message, which contains information about the survey and their participation, the NASA Privacy Statement, and the Paperwork Reduction Act Statement**

As a participant in a NASA STEM Engagement activity, you've been selected to take part in this survey. The questions below ask about your experiences with the activity in which you participated in. There are no "right" or "wrong" answers to any of the questions. Your answers to these questions will help us learn more about the activity, including what worked well and what we may improve on. Please complete the questions on this survey to the best of your ability. This survey is voluntary. You do not have to take the survey or answer any questions you do not want to. Also, your responses are confidential, meaning that your name will never be tied to your responses and no one will know how you responded to these questions.

Thank you very much for your help!

If you wish to participate in this survey, please continue.

**NASA Privacy Statement:** This notice provides NASA's policy regarding the nature, purpose, use and sharing of any information collected via this form. The information you provide on this NASA-issued form will be used only for its intended purpose. NASA will protect your information consistent with all applicable Federal laws, statutes, Government-wide and NASA Policies and Procedural Requirements. Submitting information is strictly voluntary and, by doing so, you are giving NASA your permission to use the information for the specific purpose of planning, implementing and assessing STEM engagement activities. Additionally, the data collected is used by NASA staff to support STEM engagement activity continuous improvement processes and to respond to federally mandated and Agency reporting on STEM engagement activities. If you do not want to give NASA permission to use your information, simply do not provide it. However, not providing the requested information may result in NASA's inability to provide you with the information or STEM engagement services you desire. For additional details regarding NASA Privacy Policy and Procedures, and other related information including published NASA Privacy Impact Assessments (PIAs), please visit the NASA Privacy Policy and Important Notices Web site at [http://www.nasa.gov/about/highlights/HP\\_Privacy.html](http://www.nasa.gov/about/highlights/HP_Privacy.html).

**Paperwork Reduction Act Statement:** This information collection meets the requirements of 44 U.S.C. §3507, as amended by section 2 of the Paperwork Reduction Act of 1995. You do not need to answer these questions unless we display a valid Office of Management and Budget (OMB) control number. The OMB control number for this collection is XXXX-XXXX and expires DD/MM/YYYY. We estimate that it will take 20 minutes to read the instructions and answer the questions. Send only comments relating to this time estimate to: [insertaddress@nasa.gov](mailto:insertaddress@nasa.gov).

**2. Student and Educator Respondents can decide if they would like to continue on with the survey. If the respondent chooses not to participate, the system will stop the survey at this point and will prevent them from moving forward. If they choose to participate in the survey, the system will route the respondent forward to the relevant survey questions.**

**\* Do you agree to participate in this survey?**

Select an answer choice from the list

Pick one

Pick one

Pick one

Yes, I agree to participate in this survey

No, I do not wish to participate in this survey

Thank you very much for your participation in this survey!

**\*\*Control Number, Expiration Date and Email Address will be updated upon approval**

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## 2. Challenges and Internship Participant Survey – Survey Questions

- What type of NASA STEM Engagement Activity did you participate in? Select one.
  - High School Challenge [if selected, move to the next question to answer High school grade levels]
  - College Challenge [if selected, bypass the next question to answer High school grade levels and move to the College grade level question]
  - High School Internship [if selected, move to the next question to answer High school grade levels]
  - College Internship [if selected, bypass the next question to answer High school grade levels and move to the College grade level question]
  
- What is your current grade level in High School? Select one.
  - High school freshman
  - High school sophomore
  - High school junior
  - High school senior
  - Choose not to report
  - Other,
    - If other please specify \_\_\_\_\_ [TEXT]
  
- What is your current grade level in College? Select one.
  - College freshman
  - College sophomore
  - College junior
  - College senior
  - Graduate program
  - Choose not to report
  - Other,
    - If other please specify \_\_\_\_\_ [TEXT]

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- At which NASA site was your experience located? Select one.
  - Ames Research Center - Moffett Field, CA
  - Armstrong Flight Research Center - Edwards, CA
  - Glenn Research Center - Cleveland, OH
  - Goddard Space Flight Center - Greenbelt, MD
  - Goddard Institute of Space Studies - New York, NY
  - IV and V Facility - Fairmont, WV
  - Jet Propulsion Laboratory (JPL) - Pasadena, CA
  - Johnson Space Center - Houston, TX
  - Kennedy Space Center – Merritt Island, FL
  - Langley Research Center - Hampton, VA
  - Marshall Space Flight Center - Huntsville, AL
  - Michoud Assembly Facility - New Orleans, LA
  - NASA Headquarters - Washington, D.C.
  - Stennis Space Center – Hancock County, MS
  - Wallops Flight Facility - Wallops Island, VA
  - White Sands Test Facility – Las Cruces, NM
  - Virtual / Remote
  - Other,
    - If Other Please Specify \_\_\_\_\_ [Question Logic if Other is selected, present Other Question with text response]
- 
- The next items are about authentic STEM experiences. Authentic STEM experiences are hands-on, inquiry-based, experiential learning opportunities in which learners engage directly in science and engineering practices to enhance real-world STEM skills.
- Please indicate the frequency with which you engaged in authentic STEM experiences over the past year in the following settings:
  - In school
    - Not at all At least once Monthly Weekly Every day
  - At your NASA STEM experience
    - Not at all At least once Monthly Weekly Every day
- How much did this experience introduce you to other NASA STEM engagement opportunities? Select one.
  - Not at all
  - A little
  - Somewhat
  - Very much
- As a result of your experience, how much did you GAIN in the following areas?
  - In-depth knowledge of a STEM topic(s)
    - No gain Small gain Medium gain Large gain
  - Knowledge of research processes, ethics, and rules for conduct in STEM
    - No gain Small gain Medium gain Large gain
  - Knowledge of how scientists and engineers work on real problems in STEM
    - No gain Small gain Medium gain Large gain

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- During your experience, did you have an opportunity to communicate the findings of your scientific research or engineering design process (through writing technical papers, giving presentations, demonstrating prototypes, or other means)?
  - • Yes
  - No

[If yes, show next question; If no to previous item, skip to "Did you participate....?"]
  
- You indicated you had an opportunity to communicate the findings of your scientific research or engineering design process. What type(s) of communication did you use? Select all that apply.
  - • Writing technical papers
  - Giving presentations
  - Demonstrating prototypes
  - Other, specify \_\_\_\_\_
  
- Did you participate in scientific research in your experience? (Note: Scientific research can consist of asking a question that can be answered with one or more scientific experiments; using knowledge and creativity to suggest a testable explanation [hypothesis] for an observation; considering different interpretations of data when deciding how the data answer a question; supporting an explanation for an observation with data from experiments; identifying the strengths and limitations of explanations in terms of how well they describe or predict phenomena; and defending an argument that conveys how an explanation best describes an observation.)
  - Yes
  - No
- [If yes to question, show "As a result..."; If no to previous item, skip "As a result...."]
  
- As a result of your experience, how much did you GAIN in your ability to conduct scientific research (Note: Scientific research can consist of asking a question that can be answered with one or more scientific experiments; using knowledge and creativity to suggest a testable explanation [hypothesis] for an observation; considering different interpretations of data when deciding how the data answer a question; supporting an explanation for an observation with data from experiments; identifying the strengths and limitations of explanations in terms of how well they describe or predict phenomena; and defending an argument that conveys how an explanation best describes an observation.)
  - No gain
  - Small gain
  - Medium gain
  - Large gain
- [Next page]

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- Did you participate in engineering design processes in your experience? (Note: Engineering design processes can consist of defining a problem that can be solved by developing a new or improved object, process, or system; using knowledge and creativity to propose a testable solution for a problem; making a model of an object or system to show its parts and how they work; designing procedures or an experiment that are appropriate for the question being answered; identifying the limitations of the methods and tools used for data collection; carrying out procedures for an experiment and recording data accurately; using computer models of an object or system to investigate cause and effect relationships; considering different interpretations of the data when deciding if a solution works as intended; organizing data in charts or graphs to find patterns and relationships; and supporting a solution for a problem with data from experiments.)
  - Yes
  - No

[If yes to question, show next item; If no to previous it "as a result of your experience, how much did you gain...." ]

- As a result of your experience, how much did you GAIN in your ability to conduct engineering design processes (Note: Engineering design processes can consist of defining a problem that can be solved by developing a new or improved object, process, or system; using knowledge and creativity to propose a testable solution for a problem; making a model of an object or system to show its parts and how they work; designing procedures or an experiment that are appropriate for the question being answered; identifying the limitations of the methods and tools used for data collection; carrying out procedures for an experiment and recording data accurately; using computer models of an object or system to investigate cause and effect relationships; considering different interpretations of the data when deciding if a solution works as intended; organizing data in charts or graphs to find patterns and relationships; and supporting a solution for a problem with data from experiments.)
  - No gain
  - Small gain
  - Medium gain
  - Large gain

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As a result of your experience, how much did you GAIN in each of the skills/abilities listed below?

- Learning to work independently
  - No gain Small gain Medium gain Large gain
- Setting goals and reflecting on performance
  - No gain Small gain Medium gain Large gain
- Sticking with a task until it is finished
  - No gain Small gain Medium gain Large gain
- Making changes when things do not go as planned
  - No gain Small gain Medium gain Large gain
- Working well with people from all backgrounds
  - No gain Small gain Medium gain Large gain
- Including others' perspectives when making decisions
  - No gain Small gain Medium gain Large gain
- Communicating effectively with others
  - No gain Small gain Medium gain Large gain
- Viewing failure as an opportunity to learn
  - No gain Small gain Medium gain Large gain

As a result of your experience, how much did you GAIN in the following areas?

- Interest in a new STEM topic
  - No gain Small gain Medium gain Large gain
- Deciding on a path to pursue a STEM career
  - No gain Small gain Medium gain Large gain
- Sense of accomplishing something in STEM
  - No gain Small gain Medium gain Large gain
- Feeling prepared for more challenging STEM activities
  - No gain Small gain Medium gain Large gain
- Confidence to try out new ideas or procedures on my own in a STEM project
  - No gain Small gain Medium gain Large gain
- Patience for the slow pace of STEM research
  - No gain Small gain Medium gain Large gain
- Desire to build relationships with mentors who work in STEM
  - No gain Small gain Medium gain Large gain
- Connecting a STEM topic or field to my personal values
  - No gain Small gain Medium gain Large gain

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- Did you work with a mentor as part of your experience?

- Yes
- No

[If yes to previous item, show next item; If no to previous item, skip next item]

- The list below includes effective teaching and mentoring strategies. From the list, please indicate which strategies that your mentor(s) used when working with you in the program:

- Helped me become aware of STEM in my everyday life
  - Yes \ No
- Helped me understand how I can use STEM to improve my community
  - Yes \ No
- Used a variety of strategies to help me learn
  - Yes \ No
- Gave me extra support when I needed it
  - Yes \ No
- Encouraged me to share ideas with others who have a different backgrounds or viewpoints than I do
  - Yes \ No
- Helped me learn or practice a variety of STEM skills
  - Yes \ No
- Gave me feedback to help me improve in STEM
  - Yes \ No
- Talked to me about the education I need for a STEM career
  - Yes \ No
- Recommended other NASA or industry programs that match my interests
  - Yes \ No
- Discussed STEM careers with NASA or other federal agencies
  - Yes \ No



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- Which of the following statements describe you after participating in the program?
  - I am more confident in my STEM knowledge, skills, abilities
    - Disagree – This did not happen Disagree – This happened but not because of the program Agree – the program contributed Agree – the program was the primary reason
  - I am more interested in participating in STEM activities outside of school requirements
    - Disagree – This did not happen Disagree – This happened but not because of the program Agree – the program contributed Agree – the program was the primary reason
  - I am more aware of other NASA opportunities for students
    - Disagree – This did not happen Disagree – This happened but not because of the program Agree – the program contributed Agree – the program was the primary reason
  - I am more interested in participating in other NASA student opportunities
    - Disagree – This did not happen Disagree – This happened but not because of the program Agree – the program contributed Agree – the program was the primary reason
  - I am more interested in taking STEM classes at school
    - Disagree – This did not happen Disagree – This happened but not because of the program Agree – the program contributed Agree – the program was the primary reason
  - I am more interested in pursuing a career in STEM
    - Disagree – This did not happen Disagree – This happened but not because of the program Agree – the program contributed Agree – the program was the primary reason
  - I am more aware of NASA research and careers
    - Disagree – This did not happen Disagree – This happened but not because of the program Agree – the program contributed Agree – the program was the primary reason
  - I have a greater appreciation of NASA
    - Disagree – This did not happen Disagree – This happened but not because of the program Agree – the program contributed Agree – the program was the primary reason
  - I am more interested in pursuing a STEM career with NASA
    - Disagree – This did not happen Disagree – This happened but not because of the program Agree – the program contributed Agree – the program was the primary reason
  
- After you have participated in the program, how far do you want to go in school? [Select one].
  - Go to a trade or vocational school
  - Go to college for a little while
  - Finish college (get a Bachelor's degree)
  - Get more education after college
  - Get a master's degree
  - Get a Ph.D.
  - Get a medical-related (M.D.), veterinary degree (D.V.M.), or dental degree (D.D.S.)
  - Get a combined M.D./Ph.D.
  - Get another professional degree (law, business, etc.)

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- What field are you interested in pursuing? [Select one]
  - Agricultural sciences
  - Medical, biological sciences
  - Computer sciences
  - Earth, atmospheric, and ocean sciences
  - Mathematics and statistics
  - Physical sciences
  - Psychology
  - Social sciences
  - Non-STEM Field
  
- How interested are you in participating in future NASA programs? [Select one]
  - Not at all
  - A little
  - Somewhat
  - Very much

What are the three most important ways that the program helped you?

1.[TEXT]

2.[TEXT]

3.[TEXT]

What are three ways that the program should be improved for future participants?

1.[TEXT]

2.[TEXT]

3.[TEXT]

Please tell us about your overall satisfaction with your experience.

[TEXT RESPONSE]

---End of Test Survey---

[NEXT PAGE]

**Thank you for participating in this survey!**