

NASA OSTEM Internship Program Survey

As a participant in NASA OSTEM Internship Program, you have been selected to take part in a brief questionnaire about your experiences as a NASA intern. If you wish to participate in this survey, please continue to the next page. Thank you for your cooperation!

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The information you provide via this form is protected from unauthorized disclosure in accordance with the Privacy Act of 1974. It will be used by NASA for the specific purpose of managing registrants, selecting applicants, implementing and evaluating STEM engagement investments. Collection of the information is authorized by the National Aeronautics and Space Act of 1958 § 403(a)(b), 42 U.S.C. § 2473 (c)(1). Provision of the requested information is strictly voluntary; however, failure to provide the information may result in NASA's inability to provide you with the information or STEM services you desire. NASA may disclose information to NASA administrators and managers, Office of Management and Budget officials, and members of Congress for the purposes of accountability and tracking of program and project efficiency and effectiveness. Elaboration and conditions of information disclosure may be found under "Routine Uses" of the full System of Records Notice at <https://www.govinfo.gov/content/pkg/PAI-2013-NASA/xml/PAI-2013-NASA.xml#10euda> and in Appendix B at <https://www.govinfo.gov/content/pkg/PAI-2013-NASA/xml/PAI-2013-NASA.xml#appb>.

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* 1. At which site did you participate? (Select one)

- ☐ Ames Research Center
- ☐ Armstrong Flight Research Center
- ☐ Glenn Research Center
- ☐ Goddard Space Flight Center
- ☐ Independent Verification and Validation (IV&V)

Facility ☐ Jet Propulsion Laboratory

☐ Johnson Space Center

☐ Kennedy Space Center

☐ Langley Research

Center

☐ Michoud Assembly Facility (MAF)

☐ Marshall Space Flight Center

☐ NASA Headquarters

☐ NASA Shared Services Center (NSSC)

☐ Stennis Space Center

☐ Wallops Flight Facility (WFF)

☐ White Sands Complex

☐ SC)

White Sands Test Facility (WSTF)

2. In which primary area of NASA work were you assigned during your internship? (Select one)

- ☐ Entry, Descent, and Landing
- ☐ Advanced Computing and Data Analytics
- ☐ Human Space Flight Related Areas
- ☐ Spacecraft and Instrument Development and Testing
- ☐ Flight Testing
- ☐ Remote Sensing and Atmospheric Research
- ☐ Propulsion for Both Airbreathing and Rocket/Space Systems
- ☐ Communication and Navigation Systems
- ☐ Aero-sciences including Computer Modeling and Test Facilities (wind tunnels, UAV ranges, simulators)
- ☐ Robotic Operations
- ☐ Launch Services (range, suborbital, and capabilities)
- ☐ Mission Design and Concept Development
- ☐ System and Fundamental Research Areas
- ☐ Mission Support and Enterprise Support (facilities/center operations, financial/procurement, OCHO, legal, IT/OCIO, OCOMM, ODEO, OSTEM, safety and mission assurance, and security)

* 3. Was your internship experience in-person or virtual? (Select one)

- ☐ In-person
- ☐ Virtual
- ☐ Hybrid (contained both in-person and virtual elements)

* 4. What is your gender? (Select one)

- ☐ Female
- ☐ Male
- ☐ Do not wish to provide

* 5. What is your ethnicity? (Select one)

- ☐ Hispanic or Latino
- ☐ Not Hispanic or Latino
- ☐ Do not wish to provide

* 6. What is your race? (Select as many as apply).

- ☐ American Indian or Alaskan Native
- ☐ Asian
- ☐ Black or African American
- ☐ Native Hawaiian or Other Pacific Islander
- ☐ White
- ☐ Do not wish to provide

* 7. Do you have a disability? (Select one)

- ☐ Yes
- ☐ No
- ☐ Do not wish to provide

* 8. Is English your first/native language? (Select one)

- ☐ Yes
- ☐ No
- ☐ Do not wish to provide

* 9. Has at least one of your parents/guardians graduated from college? (Select one)

- ☐ Yes
- ☐ No
- ☐ Do not wish to provide

10. What is your current grade level in school? (Select one)

☐ High school freshman

☐ High school

sophomore ☐ High
school junior

☐ High school senior

☐ College freshman

☐ College sophomore

☐ College junior

☐ College senior

☐ Graduate
student

☐ Do not wish to

☐ provide Other (please

specify)

* 11. Have you ever received or are you eligible for a Pell Grant (needs based) at your university? (Select one)

- ☐ Yes
- ☐ No
- ☐ Do not wish to provide
- ☐ Not applicable (I am not a college student)

12. When in high school, are/were you able to receive free or reduced price lunch? (Select one)

- ☐ Yes
- ☐ No
- ☐ Do not wish to
- provide ☐ Other (please

specify)

13. Where is/was your high school located? (Select one)

- ☐ Urban
- ☐ Rural
- ☐ Suburban
- ☐ Do not wish to provide

* 14. How often did you do each of the following in STEM classes at school taken over the past year? (Select one per row)

	Not at all	At least once	Monthly	Weekly	Every day
Work with a STEM researcher or company on a real-world research project	☐	☐	☐	☐	☐
Work with a STEM researcher on a project of my own choosing	☐	☐	☐	☐	☐
Design my own research or investigation based on my own question(s)	☐	☐	☐	☐	☐
Present my STEM research to a panel of judges from a relevant industry	☐	☐	☐	☐	☐
Interact with STEM researchers	☐	☐	☐	☐	☐
Use laboratory procedures and tools	☐	☐	☐	☐	☐
Identify questions or problems to investigate	☐	☐	☐	☐	☐
Analyze data or information and draw conclusions	☐	☐	☐	☐	☐
Work collaboratively as part of a team	☐	☐	☐	☐	☐
Build or make a computer model	☐	☐	☐	☐	☐

* 15. How often did you do each of the following in your NASA internship program this year? (Select one per row)

	Not at all	At least once	Weekly	Monthly	Every day
Work with a STEM researcher or company on a real-world STEM research project	☐	☐	☐	☐	☐
Work with a STEM researcher on a project of my own choosing	☐	☐	☐	☐	☐
Design my own research or investigation based on my own question(s)	☐	☐	☐	☐	☐
Present my STEM research to a panel of judges from a relevant industry	☐	☐	☐	☐	☐
Interact with STEM researchers	☐	☐	☐	☐	☐
Use laboratory procedures and tools	☐	☐	☐	☐	☐
Identify questions or problems to investigate	☐	☐	☐	☐	☐
Analyze data or information and draw conclusions	☐	☐	☐	☐	☐
Work collaboratively as part of a team	☐	☐	☐	☐	☐
Build or make a computer model	☐	☐	☐	☐	☐

* 16. How much did each of the following resources help you learn about NASA internship programs? (Select one per row)

	Did not experience	Not at all	A little	Somewhat	Very much
NASA Internship website	☐	☐	☐	☐	☐
NASA Internships on Facebook, Twitter, or other social media	☐	☐	☐	☐	☐
NASA Internships brochure	☐	☐	☐	☐	☐
Internship mentor	☐	☐	☐	☐	☐
Presentations or information shared through the internship program	☐	☐	☐	☐	☐
Participation in the internship program	☐	☐	☐	☐	☐

* 17. How much did each of the following resources help you learn about careers at NASA? (Select one per row)

	Did not experience	Not at all	A little	Somewhat	Very much
NASA Internship website	☐	☐	☐	☐	☐
NASA Internships on Facebook, Twitter, or other social media	☐	☐	☐	☐	☐
NASA Internships brochure	☐	☐	☐	☐	☐
Internship mentor	☐	☐	☐	☐	☐
Presentations or information shared through the internship program	☐	☐	☐	☐	☐
Participation in the internship program	☐	☐	☐	☐	☐

* 18. How SATISFIED were you with the following internship program features? (Select one per row)

	Did not experience	Not at all	A little	Somewhat	Very much
Applying or registering for the program	☐	☐	☐	☐	☐
Other administrative tasks	☐	☐	☐	☐	☐
Communicating with internship program organizers	☐	☐	☐	☐	☐
Variety of STEM topics available to you through the program	☐	☐	☐	☐	☐
Teaching or mentoring provided during internship program activities	☐	☐	☐	☐	☐
Direct deposit availability	☐	☐	☐	☐	☐
Lunch and learn sessions	☐	☐	☐	☐	☐

* 19. How much input did you have in selecting your internship research project? (Select one)

- ☐ I was assigned a project by my mentor.
- ☐ I worked with my mentor to design a project.
- ☐ I had a choice among various projects suggested by my mentor.
- ☐ I worked with my mentor and members of a research team to design a project.

* 20. How often was your mentor available to you during the internship program? Select one.

- ☐ Less than half the time.
- ☐ About half the time of my project.
- ☐ More than half of the time.
- ☐ Always available.

* 21. To what extent did you work as part of a group or team during the internship program? (Select one)

- ☐ I worked alone (or along with my mentor).
- ☐ I worked with others in a shared laboratory or other space, but we worked on different projects.
- ☐ I worked alone on my project and I met with others regularly for general reporting or discussion.
- ☐ I worked alone on a project that was closely connected with projects of others in my group.
- ☐ I worked with a group who all worked on the same project.

* 22. How SATISFIED were you with each of the following? (Select one per row)

	Did not experience	Not at all	A little	Somewhat	Very much
My working relationship with my mentor	☐	☐	☐	☐	☐
The level of appreciation my mentor expressed towards me	☐	☐	☐	☐	☐
The level of interest my mentor expressed for me and my work	☐	☐	☐	☐	☐
My working relationship with my group	☐	☐	☐	☐	☐
The amount of time I spent with my mentor	☐	☐	☐	☐	☐
The research experience overall	☐	☐	☐	☐	☐
The focus on community building with other interns and NASA employees	☐	☐	☐	☐	☐
The contribution I was able to make to NASA's mission work	☐	☐	☐	☐	☐
The recruitment efforts I experienced to match me with a career at NASA	☐	☐	☐	☐	☐
My sense of belonging at NASA	☐	☐	☐	☐	☐

* 23. The list bellow includes effective teaching and mentoring strategies. From the list, please indicate which strategies your mentor(s) used when working with you in the internship program: (Select one per row)

Yes – my mentor used this strategy with me

No – my mentor did not use this strategy with me

Used a variety of strategies to help me learn

☐☐

Gave me extra support
when I needed it

☐☐

Encouraged me to share ideas with others who have a different backgrounds or viewpoints than I do

☐☐

Allowed me to work on a
team project or activity

☐☐

Helped me learn or practice a variety of skills

☐☐

Gave me feedback to
help me improve

☐☐

Talked to me about the education I need for my career

☐☐

Recommended other
NASA or industry
programs that match my
interests

☐☐

Discussed careers with NASA or other federal agencies

☐☐

24. Which of the following statements apply to your research experience in the internship? (Select all that apply)

- ☐ I presented a talk or poster to other students or faculty.
- ☐ I presented a talk or poster at a professional symposium or conference. I attended a symposium or conference.
- ☐ I wrote or co-wrote a paper that was/will be published in a research journal. I wrote or co-wrote a technical paper or patent.
- ☐ I will present a talk or poster to other students or faculty.
- ☐ I will present a talk or poster at a professional symposium or conference. I will attend a symposium or conference.
- ☐ I will write or co-write a paper that was/will be published in a research journal. I will write or co-write a technical paper or patent.

* 25. Rate your level of agreement about your gains in the following content knowledge areas as a result of your participation in the internship. (Select one per row)

	Strongly disagree	Disagree	Neither agree or disagree	Agree	Strongly agree
In depth knowledge of a topic(s)	☐	☐	☐	☐	☐
Knowledge of research processes, ethics, and rules for conduct in research	☐	☐	☐	☐	☐
Knowledge of how scientists and engineers work on real problems	☐	☐	☐	☐	☐
Knowledge of what everyday research work is like	☐	☐	☐	☐	☐

* 26. Rate your level of agreement regarding if you experienced gains in these abilities areas as a result of your participation in the internship. (Select one per row)

	Strongly disagree	Disagree	Neither agree or disagree	Agree	Strongly agree
Creating a hypothesis or explanation that can be tested in an experiment/problem	☐	☐	☐	☐	☐
Using my knowledge and creativity to suggest a solution to a problem	☐	☐	☐	☐	☐
Making a model to show how something works	☐	☐	☐	☐	☐
Identifying the limitations of the methods and tools used for collecting data	☐	☐	☐	☐	☐
Carrying out an experiment and recording data accurately	☐	☐	☐	☐	☐
Supporting an explanation with my knowledge	☐	☐	☐	☐	☐
Identifying the strengths and limitations of data or arguments presented in technical texts	☐	☐	☐	☐	☐
Presenting an argument that uses data and/or findings from an experiment or investigation	☐	☐	☐	☐	☐

* 27. Rate your level of agreement regarding if you experienced gains in these skills/abilities as a result of your participation in the internship. (Select one per row)

	Strongly disagree	Disagree	Neither disagree or agree	Agree	Strongly agree
Thinking creatively	☐	☐	☐	☐	☐
Using my creative ideas to make a	☐	☐	☐	☐	☐
Thinking about how systems work and how parts interact with each other	☐	☐	☐	☐	☐
product					
Evaluating others' evidence, arguments, and beliefs	☐	☐	☐	☐	☐
Solving problems	☐	☐	☐	☐	☐
Communicating clearly (written and oral) with others	☐	☐	☐	☐	☐
Collaborating with others effectively and respectfully in diverse teams	☐	☐	☐	☐	☐
Accessing and evaluating information efficiently (time) and critically (evaluates sources)	☐	☐	☐	☐	☐
Analyzing media (news) - understanding points of view in the media	☐	☐	☐	☐	☐
Creating media products like videos, blogs, social media	☐	☐	☐	☐	☐
Using technology as a tool to research, organize, evaluate, and communicate information	☐	☐	☐	☐	☐
Adapting to change when things do not go as planned	☐	☐	☐	☐	☐

* 28. Rate your level of agreement regarding if you experienced gains in these areas as a result of your participation in the internship. (Select one per row)

	Strongly disagree	Disagree	Neither agree or disagree	Agree	Strongly agree
Interest in a new topic in my field	☐	☐	☐	☐	☐
Deciding on a path to pursue a career in my field	☐	☐	☐	☐	☐
Sense of accomplishing something in my field	☐	☐	☐	☐	☐
Feeling prepared for more challenging activities in my field	☐	☐	☐	☐	☐
Desire to build relationships with mentors who work in my field of study	☐	☐	☐	☐	☐
Connecting a topic in my field to my personal values	☐	☐	☐	☐	☐

* 29. As a result of your internship experience at NASA, which is primarily a STEM-focused organization, are you MORE or LESS likely to engage in the following activities in outside of school requirements or activities? (Select one per row)

	Much less likely	Less likely	About the same before and after	More likely	Much more likely
Watch or read non-fiction STEM	☐	☐	☐	☐	☐
Tinker (play) with a mechanical or electrical device	☐	☐	☐	☐	☐
Talk with friends or family about STEM	☐	☐	☐	☐	☐
Mentor or teach other students about STEM	☐	☐	☐	☐	☐
Help with a community service project related to STEM	☐	☐	☐	☐	☐
Participate in a STEM camp, club, or competition	☐	☐	☐	☐	☐
Work on a STEM project or experiment in a university or professional setting	☐	☐	☐	☐	☐

* 30. Prior to participating in your internship, how far did you want to go in school? (Select one)

- ☐ Finish college (get a bachelor's degree)
- ☐ Get a master's degree
- ☐ Get a Ph.D.
- ☐ Get another professional degree (law, business, etc.)
- ☐ Other (please specify)

* 31. After you have participated in your internship, how far do you want to go in school? (Select one)

- ☐ Finish college (get a bachelor's degree)
- ☐ Get a master's degree
- ☐ Get a Ph.D.
- ☐ Get another professional degree (law, business, etc.)
- ☐ Other (please specify)

* 32. How many jobs/careers did you learn about in your internship program? (Select one)

- ☐ None
- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4
- ☐ 5 or more

* 33. How many NASA jobs/careers did you learn about in your internship program? (Select one)

- ☐ None
- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4
- ☐ 5 or more

* 34. Rate your level of agreement regarding the following statements as a result of your participation in the internship. (Select one per row)

	Strongly disagree	Disagree	Neither agree or disagree	Agree	Strongly agree
I am more confident in my knowledge, skills, abilities	☐	☐	☐	☐	☐
I am more interested in participating in STEM activities outside of college requirements	☐	☐	☐	☐	☐
I am more aware of other internship opportunities	☐	☐	☐	☐	☐
I am more interested in participating in other internships	☐	☐	☐	☐	☐
I am more interested in taking STEM classes at my college	☐	☐	☐	☐	☐
I am more interested in pursuing a career with a STEM-focused organization	☐	☐	☐	☐	☐
I am more aware of NASA research and careers	☐	☐	☐	☐	☐
I have a greater appreciation of NASA	☐	☐	☐	☐	☐
I am more interested in pursuing a career with NASA	☐	☐	☐	☐	☐

35. Did participating in the NASA OSTEM Internship Program enable you to grow your confidence in doing work in your field? Please provide an example.

36. While you were a participant in the NASA OSTEM Internship Program, did you feel like you were a part of the NASA culture? Explain why or why not.

37. Do you see yourself as a person working in STEM more now as a result of your participation in the NASA OSTEM Internship Program?

* 38. What are the three most important ways that the internship program has helped you?

1.

2.

3.

* 39. What are three ways that the internship program should be improved for future participants?

1.

2.

3.

40. How would you describe your overall experience during the NASA Pathways Internship Program?

☐ Excellent

☐ Very good

☐ Good

☐ Poor

☐ Very
poor