

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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Work with a STEM researcher on a project of my own choosing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design my own research or investigation based on my own question(s)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Present my STEM research to a panel of judges from a relevant industry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Interact with STEM researchers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use laboratory procedures and tools	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identify questions or problems to investigate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Analyze data or information and draw conclusions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Work collaboratively as part of a team	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Build or make a computer model	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* 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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Work with a STEM researcher on a project of my own choosing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design my own research or investigation based on my own question(s)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Present my STEM research to a panel of judges from a relevant industry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Interact with STEM researchers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use laboratory procedures and tools	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identify questions or problems to investigate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Analyze data or information and draw conclusions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Work collaboratively as part of a team	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Build or make a computer model	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* 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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
NASA Internships on Facebook, Twitter, or other social media	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
NASA Internships brochure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Internship mentor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Presentations or information shared through the internship program	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Participation in the internship program	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* 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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
NASA Internships on Facebook, Twitter, or other social media	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
NASA Internships brochure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Internship mentor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Presentations or information shared through the internship program	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Participation in the internship program	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* 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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other administrative tasks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communicating with internship program organizers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Variety of STEM topics available to you through the program	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Teaching or mentoring provided during internship program activities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Direct deposit availability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lunch and learn sessions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* 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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The level of appreciation my mentor expressed towards me	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The level of interest my mentor expressed for me and my work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My working relationship with my group	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The amount of time I spent with my mentor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The research experience overall	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The focus on community building with other interns and NASA employees	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The contribution I was able to make to NASA's mission work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The recruitment efforts I experienced to match me with a career at NASA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My sense of belonging at NASA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* 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)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of research processes, ethics, and rules for conduct in research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of how scientists and engineers work on real problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of what everyday research work is like	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* 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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Using my knowledge and creativity to suggest a solution to a problem	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Making a model to show how something works	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identifying the limitations of the methods and tools used for collecting data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Carrying out an experiment and recording data accurately	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Supporting an explanation with my knowledge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identifying the strengths and limitations of data or arguments presented in technical texts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Presenting an argument that uses data and/or findings from an experiment or investigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* 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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Using my creative ideas to make a	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thinking about how systems work and how parts interact with each other	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
product					
Evaluating others' evidence, arguments, and beliefs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Solving problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communicating clearly (written and oral) with others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaborating with others effectively and respectfully in diverse teams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Accessing and evaluating information efficiently (time) and critically (evaluates sources)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Analyzing media (news) - understanding points of view in the media	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Creating media products like videos, blogs, social media	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Using technology as a tool to research, organize, evaluate, and communicate information	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adapting to change when things do not go as planned	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* 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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Deciding on a path to pursue a career in my field	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sense of accomplishing something in my field	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Feeling prepared for more challenging activities in my field	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Desire to build relationships with mentors who work in my field of study	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Connecting a topic in my field to my personal values	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* 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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tinker (play) with a mechanical or electrical device	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Talk with friends or family about STEM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mentor or teach other students about STEM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Help with a community service project related to STEM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Participate in a STEM camp, club, or competition	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Work on a STEM project or experiment in a university or professional setting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* 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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am more interested in participating in STEM activities outside of college requirements	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am more aware of other internship opportunities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am more interested in participating in other internships	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am more interested in taking STEM classes at my college	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am more interested in pursuing a career with a STEM-focused organization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am more aware of NASA research and careers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I have a greater appreciation of NASA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am more interested in pursuing a career with NASA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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