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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# \* 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 (WSC)

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)

# 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)

# 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 product

Thinking about how systems work and how parts interact with each other

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

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

1. 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.
2. 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