

NASA Internship Programs



NASA Vision

“To discover and expand knowledge
for the benefit of humanity”



To the Moon: Take the Next Giant Leap with Us

With Artemis missions, NASA will land the first woman and the first person of color on the Moon, using innovative technologies to explore more of the lunar surface than ever before. We will collaborate with commercial and international partners and establish the first long-term presence on the Moon.

Then, we will use what we learn on and around the Moon to take the next giant leap: sending the first astronauts to Mars.

Meet the Rocket: Space Launch System (SLS)

Combining power and capability, NASA's Space Launch System (SLS) rocket is part of NASA's backbone for deep space exploration and Artemis. With its unprecedented capabilities, SLS is the only rocket that can send Orion, astronauts, and cargo directly to the Moon in a single launch.

In 2022, SLS launched from Florida, making history as the most powerful rocket NASA has ever launched. Now, we prepare for future crewed missions.



Humanity on Earth: Monitoring Sea Level Rise

NASA's Operation IceBridge is yielding an unprecedented three-dimensional view of Arctic and Antarctic ice sheets, ice shelves and sea ice. These flights provide a yearly look at the behavior of the rapidly changing features of the Greenland and Antarctic ice.

IceBridge collects critical data used to predict the response of Earth's polar ice to climate change and resulting sea-level rise.

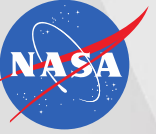




Humanity off Earth: Detecting Cancer

Image-Analysis Software Sees Cancer in 3D

Using the filters and algorithms created to study the shape of astronauts' eyes in space, researchers found they could also identify the three-dimensional shape of a tumor within an image series.



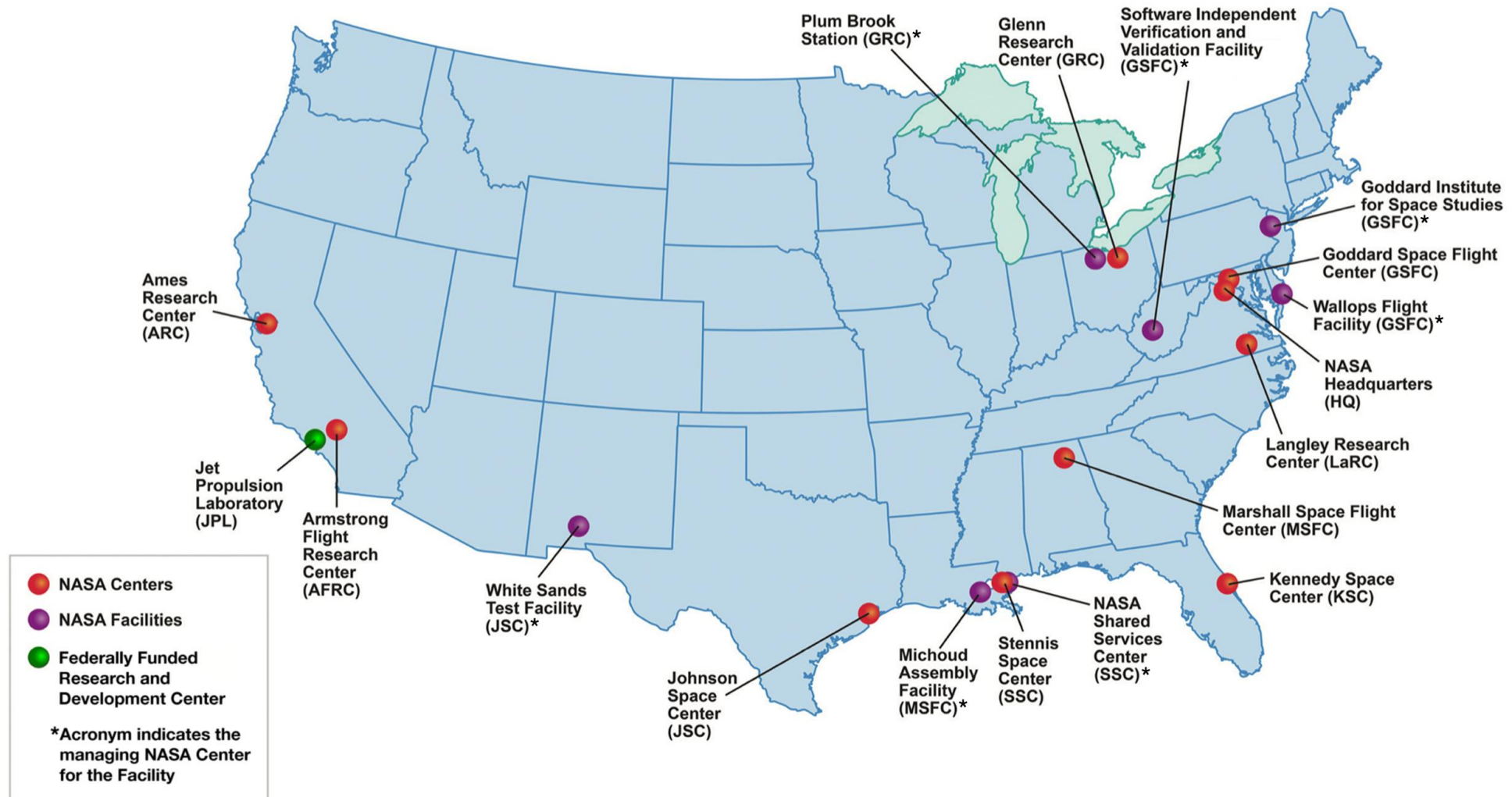
NASA Internships

Pathways and STEM Engagement Programs

Two Internship Programs: Pathways and STEM Engagement

	Pathways	OSTEM Intern
Overview	May lead to a career at NASA (Pathways Intern, Recent Graduate, Presidential Management Fellowship)	Work on projects that fit your interests along with some of the best mentors.
Employment Status	Civil Servant	Non-civil servant
Application System	usajobs.gov/studentsandgrads	https://stemgateway.nasa.gov/public/s/explore-opportunities
Website	www.nasa.gov/careers/pathways	Intern.nasa.gov
Majors	STEM and Non-STEM (currently 70/30)	Focused on STEM (limited opportunities for other majors)
Degree Levels	College sophomores through Post Graduate	High school through Post Graduate
Start Dates	Spring/Fall	Spring/Summer/Fall

NASA Locations





Pathways Program Minimum Qualifications

Overall Eligibility

- Be a U.S. Citizen
- At least 16 years of age on start date

Program Eligibility

- Pursuing a degree or certificate in an accredited program
 - Enrolled at least half- to full-time in school
 - Have and maintain a GPA of 2.9 or higher on a 4.0 scale
 - Can work a MINIMUM of 640 hours BEFORE graduation
 - Can begin work on the date specified by the announcement
- * *Veterans Preference does apply to all Pathway opportunities*

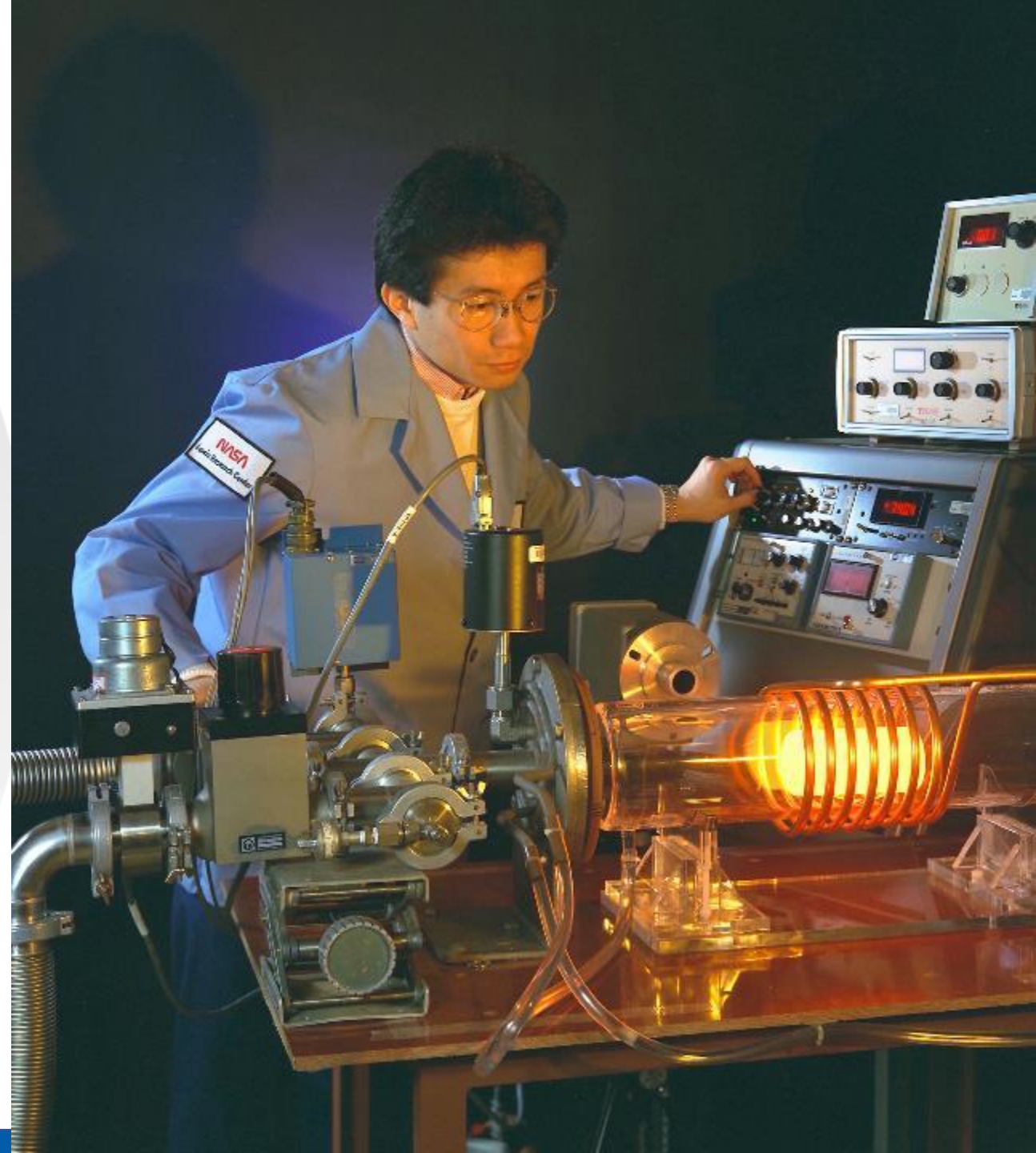
STEM Engagement Requirements

1. U.S. citizenship
2. A minimum of 16 years of age at the time of application
3. Currently enrolled in (or accepted for enrollment to) an accredited college or university as full time or a part-time college-level student enrolled in a minimum of 6 semester hours:

Engineering programs: <http://www.abet.org/>

All programs: <http://ope.ed.gov/accreditation/>

4. Currently have and maintain a cumulative GPA of 3.0 or higher (on a 4.0 scale)



Preferred Fields of Study

STEM Majors

Technology: Airborne Science Research, Balloons & Sounding Rockets, Computer Science, Electronics, Nanotechnology, Software Engineering, Systems Engineering/Design

Engineering: Aerospace Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Detector Systems, Environmental Engineering, Instrumentation Engineering, Materials Engineering, Composites Applications, Mechanical Engineering, Microelectronics & Signal Processing, Optical Engineering, Robotics, Thermal Engineering, Welding Engineering

Science: Applied Optics, Chemistry, Physics, Materials Science

**Just a sample, not limited to listed majors*

Business and Related Majors

Non-Technical: Business, Administrative, Accounting, Economics, Finance, Logistics, Management Information Systems, Communications, Public Relations, Marketing, Management, Human Resources, Education

**Please note, Engineering Technology degrees do not qualify for Pathways engineering positions. Each position will list preferred or required majors, please see vacancy for specific education requirements.*

NASA Internship Value

- Both NASA internships are paid and engage students with real-world experiences while contributing to the advancement of NASA's missions.
- Meaningful work that truly makes an impact on the world.
- Networking opportunities with managers, mentors, NASA employees and other interns
- Opportunities to participate in Employee Resource Groups (ERGs) that connect interns across the agency

STEM Engagement Internships

- Short term work on specific project
- Flexibility of selecting specific majors (Ex. Space architects, digital media, and optics engineering)

Pathways Internships

- Long term work on multiple projects
- Focus on core majors (accounting and aerospace engineering)

NASA is Consistently Voted the Best Place to Work in the Federal Government!

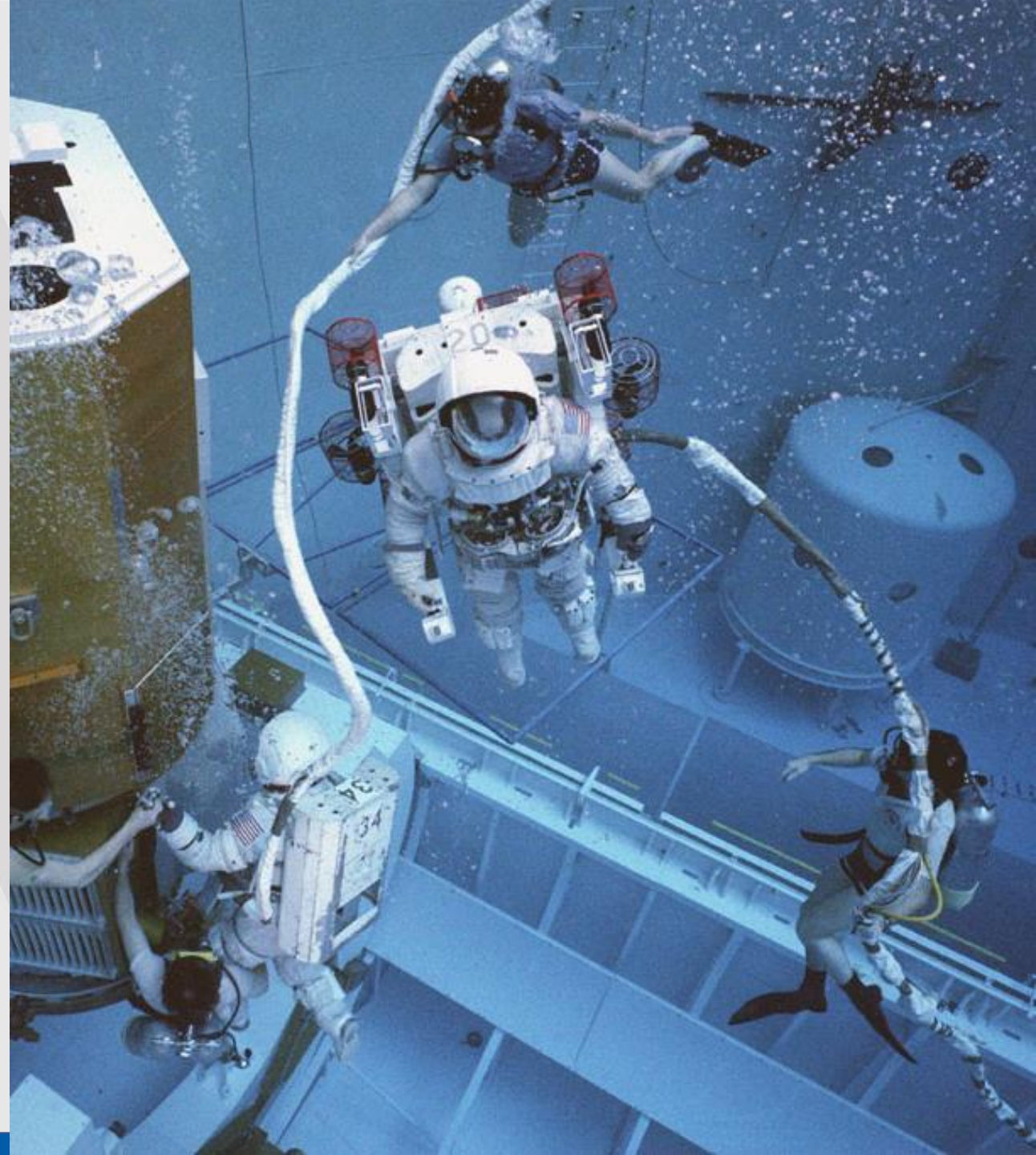


Pathways Intern Benefits

- Completion of the Pathways Program may lead to a NASA job offer.
- Autonomy to define your own career trajectory. We'll work with you to define assignments and training opportunities that will help you achieve YOUR career goals.
- Pathways interns are paid every 2 weeks based on your GS level, including paid federal holidays.
- Promotion eligibility while in the Pathways Program
- Health Insurance (can be carried over when student is back at school)
- Life Insurance
- Federal Employees Retirement System (FERS) & Thrift Savings Plan (TSP)
- Annual Leave / Sick Leave / Military Leave

STEM Engagement Benefits

- Competitive Stipend
- Ability to choose new projects each semester and apply for internships across the agency
- Short term, fun projects offered by great mentors
- Be part of the NASA team and network across the globe
- Full-time, part-time and virtual internships are available
- Teachers are welcome to apply too





Resume Tips: The Basics

1. Include your contact information (City, State, Zip Code)
2. Use a professional email address
3. Create a professional message on your voicemail
4. Check with your references before using their names
5. Check your spelling and grammar
6. Include all major education factors (GPA, graduation date, degree level, major, relevant coursework)
7. Please make sure to read the entire vacancy.

How to Apply: Pathways

1. Create your USAJOBS profile at www.USAJobs.gov.
 - If you do NOT have an account, you MUST create one
2. Create an alert so that you receive an email when opportunities match your criteria
3. Look for announcements titled “Student Trainee.” Once you find an opportunity, follow the instructions in the “How to Apply” section of the announcement.
4. Upload your documents
 - Allows up to 5 “Resumes” and storage of 10 “Other” documents
 - Get your documents ready ahead of time and upload to USAJobs:
 - ❖ Resume **(Required)**
 - ❖ Transcript **(Required)**
 - ❖ Veteran’s Preference Documents (Accepted)
 - ❖ Required ONLY if claiming preference eligibility
 - ❖ Reasonable Accommodation Documents (Accepted)
 - ❖ Required ONLY for an accommodation to complete the Online Assessment

Give yourself plenty of time to complete the application process!



How to Apply: STEM Engagement

1. Go to intern.nasa.gov
2. Look for Learn More
3. Click Apply Here





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Resume Tips: Stand Out

1. Work Experience (you are not limited to 1 page)
 - Document all related jobs
 - Use school projects if you lack job experience
 - Describe unrelated jobs the right way
2. Think like an employer (tailor your application to the position)
3. Federal resumes can be longer and require more information than private sector/non-profit resumes.

Important sections for STEM

- **Computer Skills:** Describe your knowledge of any computer skills, software languages, hardware, or any specialized computer programs.
- **Technical Skills:** Include any knowledge or capabilities to perform specialized tasks. This may include laboratory experience, special tools machine shop, etc.
- **Other Skills:** List any other skills needed. This includes soft skills (communication, leadership, teamwork, etc.)
- Previous NASA Program Experience
- List any NASA program experience – Space Grant





Resume Tips: Describing Your Experience

- Focus on the qualification requirements section of the vacancy announcement - your resume should describe how you meet the requirements
- Resume should be results driven - Use the S.A.R method: Describe the Situation, Action and Result.
- Use action words to describe work experience: managed, assisted, responded, planned, coordinated, met with, implemented, communicated with, tested, developed, spearheaded, etc.
- Include special skills like computer proficiency and language ability
- Plan ahead - Allow plenty of time to thoroughly proof read and complete your application
- Apply by the deadline or better yet – early!



NASA Research Opportunities

Supporting research in science and technology is an important part of NASA's overall mission. NASA solicits this research through the release of various research announcements in a wide range of science and technology disciplines.

NASA uses a peer review process to evaluate and select research proposals submitted in response to these research announcements. Researchers can help NASA achieve national research objectives by submitting research proposals and conducting awarded research.

nspires.nasaprs.com



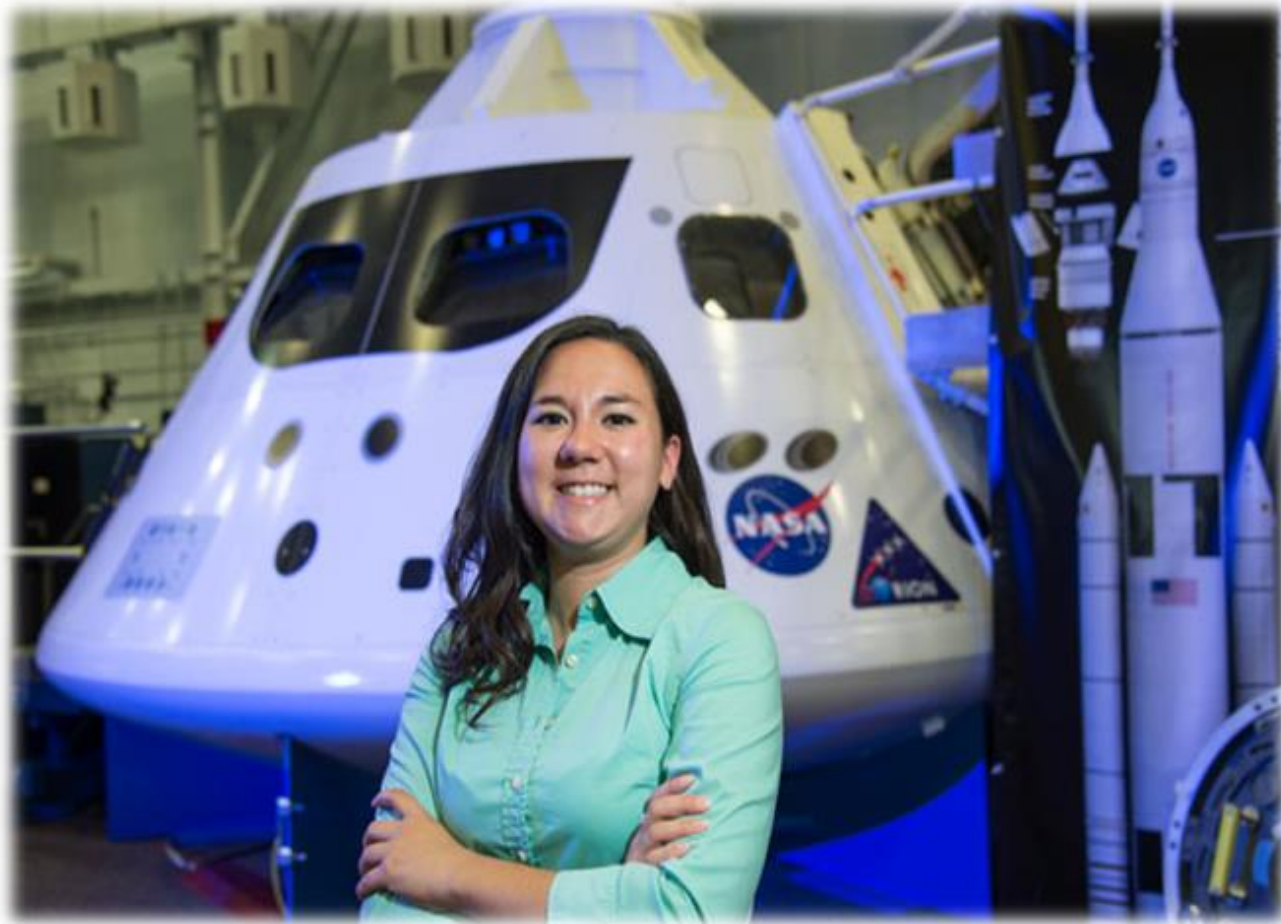
NASA Opportunities for International Students

Participating countries: Australia, Brazil, Canada, European Union, Israel, Jordan, Lithuania, Mexico, New Zealand, Norway, Portugal, South Korea, Sweden, Trinidad and Tobago and the United Arab Emirates

- If you are a citizen of one of the countries listed above, and are interested in applying to one of the available research opportunities, please go to intern.nasa.gov to learn more.

Additional Requirements Include:

- Currently pursuing an undergraduate or graduate degree in science, technology, engineering or mathematics (STEM) in a topic relevant to NASA's mission priorities.
- Maintaining high academic standing.
- Demonstrating an active interest in the U.S. space program.
- Communicating Proficiently in English



Questions?



