



## PROGRAM OVERVIEW

### Description

NASA Glenn Faculty Fellowship Program (NGFFP) is a 10-week residential research program that is open to full-time science, technology, engineering, and mathematics (STEM) faculty members who are U.S. citizens, Lawful Permanent Residents (LPR), Permanent Resident Aliens (PRA), or Green Card Holders and who are currently teaching at accredited U.S. universities and colleges. An NGFFP award is for one summer residency (June to August) at Glenn Research Center (GRC). Proposed faculty engagements must be aligned with one or more of the Glenn Areas of Expertise, cross-cutting engineering disciplines, or focused research areas for meeting the Center's commitments to advance NASA's mission.

The benefits of participating in NGFFP are:

- Enhancing professional knowledge through engagement in cutting-edge research at GRC.
- Engaging with NASA subject matter experts in research and engineering.
- Enriching research and instruction at U.S. academic institutions by infusing NASA mission-related research and technology content into classroom teaching; and
- Contributing to in-house research, technology and engineering goals and objectives of GRC in support of NASA's mission.

### About NASA Glenn Research Center

NASA GRC offers a unique blend of aeronautics and space research, technology development, and space flight experience. The Center's Areas of Expertise and world-class research and technology advancements encompass in-space propulsion systems and cryogenic fluids management; power, energy storage and conversion; air-breathing propulsion (jet engines); physical sciences and biomedical technologies in space; materials and structures for extreme environments; and communications technology and development. Located near Cleveland Hopkins International Airport and the Cleveland Metroparks' Rocky River Reservation, Glenn's main campus, Lewis Field, is situated on 307 acres of land and contains more than 100 buildings. The world-class facilities at Lewis Field include wind tunnels, drop towers, vacuum chambers, and an aircraft hangar. NASA's Neil Armstrong Test Facility, a subset of NASA Glenn, is located 50 miles west of Cleveland in Sandusky, Ohio, on 6,400 acres of land. It has large, unique facilities that simulate the environment of space. Both locations bring NASA, military, academic, and private industry customers to Ohio to perform aerospace research and testing.

Glenn supports all agency missions and major programs. A multitude of NASA missions have included Glenn contributions, from Mercury and the Space Shuttle Program to the International Space Station and Artemis. Every U.S. aircraft has NASA Glenn technology on board, making flight cleaner, safer, and quieter. Today, we are conducting revolutionary aeronautics research in electrified aircraft propulsion, advanced materials, and alternative fuels to help the nation achieve its climate change goals. We are also exploring next-generation supersonic and hypersonic aircraft. The road to the Moon goes through Ohio. Glenn's world-class test facilities and unrivaled expertise in power, propulsion, and communications are crucial to advancing the Artemis program. Glenn's solar electric propulsion will help propel future exploration missions to the Moon and eventually Mars, where astronauts will conduct scientific research and establish a presence on the surface.

More than 3,200 people work at Glenn, including civil servants and on-site contractors. A highly skilled workforce of scientists, engineers, technicians, and administrative and support personnel comprise the diverse Glenn team.



### Application Period

Opens: November 11, 2024

Closes: January 12, 2025

Anticipated Announcement Date: April 4, 2025

**Session Dates:** June 2, 2025, to August 8, 2025

Extensions beyond the official 10-week Fellowship period may be granted, if deemed mutually beneficial and funding is available.

**Core Work Hours:** 8:30 AM to 5:00 PM (Monday through Friday)

### Eligibility Requirements

- U.S. citizens, Lawful Permanent Residents (LPR), Permanent Resident Aliens (PRA), or Green Card Holders.
- Tenured or tenure-track, full-time STEM faculty at 4-year accredited U.S. colleges and universities, or full-time STEM faculty at 2-year U.S. academic institutions.

Former NGFFP participants may apply for a second consecutive-year summer residency. Qualified faculty from minority-serving institutions (MSIs), including underrepresented groups and early career faculty within their first 5 years of faculty position are encouraged to apply.

GRC is committed to implementing all Federal laws, regulations, and guidelines related to the development of affirmative employment and inclusion of persons with disabilities.

### Participation Requirements

Fellows must:

- Attend NGFFP Orientation.
- Participate in the NGFFP at GRC full-time for the complete 10 consecutive weeks, without concurrent teaching.
- Not schedule personal vacation time during the Fellowship period of participation.
- Not receive concurrent compensation from other Federal sources during the 10-week on-site Fellowship at GRC.
- Attend Glenn University Student Design Challenges Culminating Presentation(s)
- Prepare and submit a final report of their research outcome(s) at GRC, at near-end of the Fellowship.
- Disclose to GRC full information on Fellowship-derived new technology (which is or may be patentable), including any new process, machine, manufacture, composition of matter, or software.
- Submit a final written report on their research, on the week 9 of the Fellowship.
- Provide participant and program feedback.
- Complete NGFFP selection package no later than **April 11, 2025**.
- Always conduct yourself in a professional manner.



**Compensation**

The 10-week stipends for Faculty Fellows are as follows:

Assistant Professor	\$15,000
Associate Professor	\$17,000
Full Professor	\$19,000

As guests of GRC, Faculty Fellows are effectively self-employed for tax purposes. Hence, Federal and state taxes will not be withheld from stipend payment. Fellows will be responsible for meeting any Federal and state tax obligations.

Fellows whose academic institutions are located more than 50 miles from GRC will receive a relocation allowance of \$1,000, in addition to a round-trip travel allowance at actual cost, but not exceeding \$500.00.

**Housing**

A list of short-term accommodations within the vicinity of GRC will be emailed to incoming Faculty Fellows no later than April 11, 2025, to assist Fellows in making their housing arrangements, in anticipation of on-site work during summer 2025. The NGFFP does not provide additional living expenses for program participants.

**Areas of Expertise**

Research, engineering, and technology engagements include the following NASA mission-related areas of interest grouped under **GRC’s six Areas of Expertise and Cross-Cutting Engineering Disciplines**:

- Air-Breathing Propulsion (Jet Engines)
- Communications
- In-Space Propulsion and Cryogenic Fluids Management
- Power, Energy Storage, and Conversion
- Materials and Structures for Extreme Environments
- Physical Sciences and Biomedical Technologies in Space



Air-Breathing Propulsion



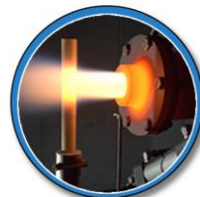
Communications Technology and Development



In-Space Propulsion and Cryogenic Fluids Management



Power, Energy Storage, and Conversion



Materials and Structures for Extreme Environments



Physical Sciences and Biomedical Technologies in Space

**NGFFP Focused Areas**

Focused areas for research and collaboration can be found at:

<https://www.nasa.gov/nasa-glenn-faculty-fellowship-program/>



APPLICATION FOR SUMMER 2025 FACULTY FELLOWSHIP

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_ Middle Initial: \_\_\_\_\_

Country of Citizenship: \_\_\_\_\_ (To be verified before participation in program)

Current Institution: \_\_\_\_\_ Current Position and Department: \_\_\_\_\_

\* Is your institution an MSI?  Y  N \* Are you Early Career Faculty?  Y  N

\* Select One  Full Professor  Assistant Professor  Associate Professor

Home Address: \_\_\_\_\_

Work Address: \_\_\_\_\_

Telephone: \_\_\_\_\_ Telephone: \_\_\_\_\_

Email: \_\_\_\_\_

Highest Academic Degree, Field, Institution: \_\_\_\_\_

Special Field(s) of Knowledge: \_\_\_\_\_

Current Teaching Responsibility: \_\_\_\_\_

Current Research Area(s): \_\_\_\_\_

Sponsor(s) of Current Research (if any): \_\_\_\_\_

Have you previously participated in the GRC Faculty Fellowship?  Y  N

\*If YES, state year(s) and GRC colleague(s): \_\_\_\_\_

Select NGFFP Focused Area: \_\_\_\_\_

Anticipated Fellowship Research Area: \_\_\_\_\_

Anticipated Glenn Host Organization and Colleague (if known): \_\_\_\_\_

\*An optional, prior discussion with a potential GRC host organization can be helpful in determining a match between an applicant's desired area(s) of Fellowship and the needs of the organization.

## APPLICATION FOR SUMMER 2025 FACULTY FELLOWSHIP (continued)

**Include Statement of Academic Benefit** (to be derived from Fellowship participation, 1-page limit)

**Professional References** (Name, title, phone number, and email address)

1. Dean or Department Head: \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**Email one electronic package including the following items to [GRC-NGFFP@mail.nasa.gov](mailto:GRC-NGFFP@mail.nasa.gov):**

- (a) Completed application
- (b) Curriculum vitae (CV)
- (c) Statement of Academic Benefit

Include the following in the email subject line: [APP-Applicant LastName-FirstInitial-NGFFP25](#)

**Applicant requests all recommendation letters be emailed to [GRC-NGFFP@mail.nasa.gov](mailto:GRC-NGFFP@mail.nasa.gov)**

- (a) Endorsement by your Dean or Department Head, including status of your academic tenure, is required.
- (b) If desired, applicant may include up to two additional recommendations.

Include the following in the email subject line: [RL-Applicant LastName-FirstInitial-NGFFP25](#)

**All supporting materials noted above must be received by the application deadline of January 12, 2025, no later than 11:59 PM (EST).**

### Selection Process

Fellowships are awarded to STEM faculty with specific interests and experiences compatible with available opportunities within GRC host organizations. Such opportunities are typically consistent with the technical areas identified in [Areas of Expertise](#).

- Applications reviewed by GRC host organizations.
- Applicant matching based on compatibility with focused areas of interest.
- GRC Fellowship Selection Committee (FSC) review and ranking.
- GRC host organizations review and validation.
- Final selection conducted by organization senior management.

I certify that the information provided herein is complete and correct.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Contact: [GRC-NGFFP@mail.nasa.gov](mailto:GRC-NGFFP@mail.nasa.gov)

## Participant Information

### NGFFP 2025 Application

Name (print): \_\_\_\_\_

To determine the degree to which members of each ethnic and racial group are reached by this announcement, NASA requests that applicants check the appropriate block(s) below. Submission of this information is **VOLUNTARY**.

**Please complete all questions, even if your response is “Do not wish to provide,” and return with your application materials.**

#### What is your Gender?

- Male
- Female
- Do Not Wish to Provide

#### What is your ethnicity? (Check one)

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

#### What is your race? (Check one or more)

- American Indian or Alaska Native
- Asian
- Black or African-American
- Native Hawaiian or other Pacific Islander
- White
- Do not wish to provide

#### Individual with a disability (Check one or more)

- Hearing Impairment
- Visual Impairment
- Mobility/orthopedic Impairment
- Other
- None
- Do not wish to provide

The Privacy Act of 1974 (PA) requires the National Aeronautics and Space Administration (NASA) to give each person the following notice when registering to participate in a NASA Education program or project through our online website <https://www.nasa.gov/centers/glenn/education/index.html>

The National Aeronautics and Space Act of 1958 § 403(a)(b), 42 U.S.C. § 2473 (c)(1), as amended allows us to collect the information we ask for on this form.

We use the information you provide on the form to register you to participate in a NASA Education event, activity, training session, workshop, program, or project. Completion of this form is voluntary; however, failure to provide the information requested may prevent you from participating in the NASA Education activity in which you are interested.

We may disclose information as necessary to NASA personnel, contractors, and partners to administer NASA Education programs and projects. We may disclose information to partnering informal or formal education institutions with whom you are affiliated. Finally, we may disclose information to NASA administrators and managers, Office of Management & Budget (OMB) officials, and members of Congress for the purposes of accountability and tracking of program and project efficiency and effectiveness.