

**Division of Graduate  
Education  
(DGE)**

**Graduate Research Fellowship  
Program (GRFP)  
NSFGRFP.org**





## Graduate Research Fellowship Program (GRFP)

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Directorate for STEM Education (EDU)  
Division of Graduate Education (DGE)

[www.nsf.gov/grfp](http://www.nsf.gov/grfp)  
[info@nsfgrfp.org](mailto:info@nsfgrfp.org)  
[www.nsfgrfp.org](http://www.nsfgrfp.org)

# About GRFP



General Information

Description

Eligibility

Ineligible Degree Programs

Ineligible Areas of Study &  
Proposed Research

Application Package

Review Criteria



# ABOUT NSF GRFP



SINCE 1952

**70,000+**  
GRFPS AWARDED

**40+ FELLOWS**  
HAVE BECOME NOBEL  
LAUREATES

**FELLOWS FROM/IN EVERY STATE**

**450+ FELLOWS**  
HAVE BECOME MEMBERS  
OF THE NATIONAL  
ACADEMY OF SCIENCES



**\$37,000**  
ANNUAL STIPEND



**\$16,000**  
COST OF EDUCATION  
ALLOWANCE

**5-YEAR**  
FELLOWSHIP  
PERIOD  
**3 YEARS**  
FINANCIAL  
SUPPORT

**NO POST-GRADUATE  
STUDY SERVICE  
REQUIREMENT**

**~ Per Competition**  
**12,000+**  
APPLICANTS  
**2,000+** OFFERS

**ACADEMIC  
INSTITUTIONS  
REPRESENTED**  
**500+**  
**~ Per Competition**

## Submit Early

### OPEN TO:

Individuals Pursuing  
RESEARCH-BASED  
MASTER'S &  
DOCTORAL DEGREES  
In Eligible Fields of  
Study

[nsfgrfp.org](http://nsfgrfp.org)

**DECISION  
TREE**

**FORMAT  
COMPLIANCE  
CHECK**

## ELIGIBLE MAJOR FIELDS OF STUDY



**CHEMISTRY**



**COMPUTER AND  
INFORMATION  
SCIENCES &  
ENGINEERING**



**ENGINEERING**



**GEOSCIENCES**



**LIFE  
SCIENCES**



**MATERIALS  
RESEARCH**



**MATHEMATICAL  
SCIENCES**



**PHYSICS &  
ASTRONOMY**



**PSYCHOLOGY**



**SOCIAL  
SCIENCES**



**STEM EDUCATION & LEARNING  
RESEARCH**

**EACH MAJOR FIELD OF STUDY HAS SUBFIELDS**

# Graduate Research Fellowship Program (GRFP)

## DESCRIPTION



**Five Year Awards – \$159,000\***

**\$53,000 each year for three years over five-year period**

- \$37,000 stipend + \$16,000 education allowance paid to institution
- Payment covers all tuition and mandatory fees (no cost to student)

**Other NSF Opportunities**

- INTERN – non-academic internship program
- FASED Individuals with Disabilities support
- Career-Life Balance Initiative (family leave)



- **Fellowship**: Awarded to individual, paid through the attended graduate institution
- **Flexible**: Choice of project, advisor, and graduate program
- **Unrestricted**: No service requirement after completion
- **Portable**: Can be used at any accredited, non-profit, US institution of higher education, with campus in US for research-based master's and doctoral degrees

**2010 - 2022: ~2,000-2,100 Fellowships yearly**

2022: ~12,600 Applications - ~18% success rate

2021: ~12,600 Applications - ~17% success rate

2020: ~12,800 Applications - ~16% success rate

2019: ~12,200 Applications - ~16% success rate



**The overall goal of the Graduate Research Fellowship Program is to recruit individuals into Science, Technology, Engineering, and Mathematics (STEM) fields**

- To select, recognize, and financially support individuals who have demonstrated the potential to be high achieving scientists and engineers, early in their careers
- To broaden participation of the full spectrum of diverse talents in STEM



**DGE** | DIVISION OF  
GRADUATE EDUCATION

# Graduate Research Fellowship Program (GRFP)

## ELIGIBILITY



National Science Foundation  
Directorate for STEM Education (EDU)



- U.S. citizens, nationals, and permanent residents
- Early-career: undergrad & graduate students
- Pursuing research-based master's and/or doctoral degrees (no professional degrees)
- Science, Technology, Engineering, Mathematics (STEM) or STEM Education
- Full-time enrollment in graduate degree program at accredited, non-profit US institution of higher education
- NO foreign institutions

Level 1: Seniors/Bachelor's degree: no graduate study

Level 2: 1st-year graduate students

- Joint Bachelor's-Master's (completed 3 years)

Level 3: Second-year graduate students

- No more than 1 academic year completed in 1st graduate degree program
- Joint BS/MS holders ONLY: can apply as 1st year doctoral students progressed to PhD directly after completing joint BS/MS degree



Level 4: Returning graduate students

- > 2-year interruption in graduate study
- No doctorates or > 1 academic year in graduate program
- NOT ENROLLED in graduate program at application deadline



- Professional degree programs
  - E.g., MBA, MD, JD, DVM, DDS
- Joint science-professional degree programs
  - E.g., MD/PhD, JD/PhD
- Community, Global, or Public Health (MPH)
- Counseling, Social Work (MSW)
- Education (except STEM education)
- Humanities (except history of science)

**See Detailed Eligibility  
Requirements in the  
GRFP Solicitation**



## *Ineligible Areas of Study and Proposed Research\**

### Research with directly health-related goals

- Etiology, diagnosis, or treatment of disease or disorder
- Animal models of disease for drug development/testing
- Epidemiology
- Disease prevention
- Public, community, global health
- Clinical research
- Patient-oriented research
- Epidemiological and behavioral studies

### Outcomes research

- Health services, standard of care, health policy
- Research directly leading to clinical trials
- Advocacy for specific policy outcomes

### Applied research on plant pathology

- Maximizing agricultural production

### Impacts on food safety

\* See GRFP solicitation for limited exceptions to ineligible areas of study and proposed research



# Graduate Research Fellowship Program (GRFP)

Application Package





# GRFP Application

## Complete Application Package:

- 1) Personal Information, Education, Work/Research Experience, Proposed Major Field of Study, Honors, Awards, Publications
- 2) Personal, Relevant Background and Future Goals Statement (3-page PDF)
- 3) Graduate Research Statement (2-page PDF)
- 4) Transcripts (PDFs; mandatory)
- 5) Letters of reference (may provide up to five names of reference letter writers)
  - Mandatory: 3 reference writer names



**DEADLINES (5 p.m. local time of applicant mailing address):**

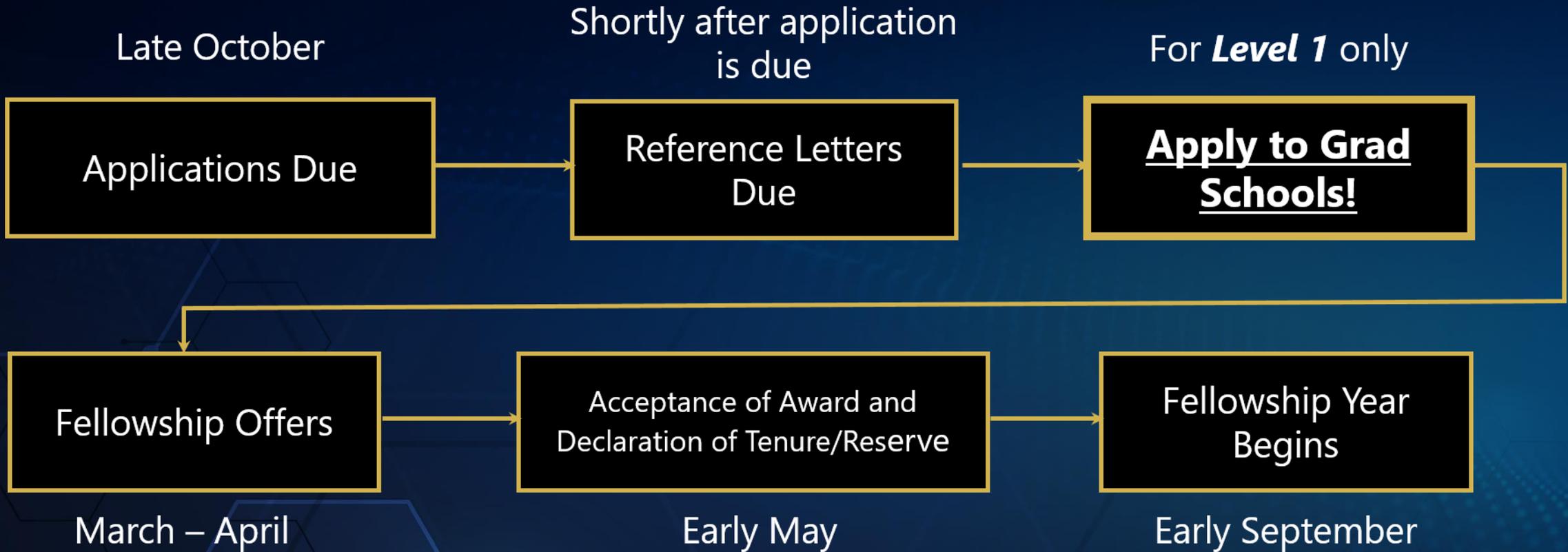
- Oct. 16, 2023: Life Sciences
- Oct. 17, 2023: Computer & Information Science & Engineering, Materials Research, Psychology, Social Sciences, STEM Education & Learning
- Oct. 19, 2023: Engineering
- Oct. 20, 2023: Chemistry, Geosciences, Mathematical Sciences, Physics & Astronomy

**Read the GRFP Solicitation for detailed application instructions and requirements!**

To request accessibility accommodations, please contact [info@nsfgrfp.org](mailto:info@nsfgrfp.org) at least four weeks before the application deadline.



# Example GRFP Application Timeline



# Graduate Research Fellowship Program (GRFP)

## Two Statements

- 1) Personal, Relevant Background & Goals
- 2) Research Statement



- Tell your story; demonstrate your potential for STEM research
- Experiences (professional and personal) that contributed to your motivation and preparation for pursuing a STEM career

### **Career aspirations and future goals**

How have your experiences shaped your goals?

### **Research, industrial, professional experience**

- What was the project, what was your role?
- How did you become involved? Where was it done?
- Why was this project worth doing? What have you learned? Any advanced course work?
- What was your contribution to the project and how did it fit into the whole?



**Describe your proposed research plan:**

- Communicate your research idea and approach
- Explain your research plan and methods
- What do you expect to learn? How will you know if the project is successful?
- What would you do next?

**Keep in mind:**

- Avoid jargon
- Communicate clearly for non-specialists
- Make your contributions clear

**Clearly address NSF's Merit Review Criteria – Intellectual Merit and Broader Impacts – under separate headings**



## Reference Letters

### MANDATORY for Application Review

- 3 reference writer names in the application
- 2 reference letters **must be received** by NSF

### STRONGLY RECOMMENDED

- List up to 5 names of reference writers
- 3 reference letters received by NSF

List and rank up to 5 reference letter writers  
- Top 3 will be seen by reviewers

## Transcripts – Required

- All applicants **must** submit Bachelor's degree transcript
- Transcripts **required** for all degree programs
- Transcripts **required** for all graduate degree enrollment
- Official or unofficial transcripts accepted
- Official transcripts **recommended** for 2<sup>nd</sup> year graduate students



# Graduate Research Fellowship Program (GRFP)

## Review Criteria



### **Intellectual Merit**

- How important is the proposed activity to advancing knowledge within its own field or across different fields?

### **Broader Impacts**

- How well does the proposed activity benefit society or advance desired societal outcomes?



**Review considerations:**

- Demonstrated potential for significant achievement in STEM
- Comprehensive, holistic approach to review
- Balanced consideration to all components of the application
  - educational and research record, leadership, outreach, service activities, plans for the future, individual competencies, experiences, and other attributes



**Evidence of potential and ability:**

- Demonstrated intellectual ability (grades, curricula, awards, publications, presentations, etc.)
- Plan and conduct research
- Work as a member of a team as well as independently
- Interpret and communicate research
- Take initiative, solve problems, persist
- Display the potential of your approach to your major field of study and your Research Plan to advance knowledge

Evidence of Intellectual Merit can be found in all parts of the application: Personal Statement, Research Plan, letters, experiences, awards, achievements, and transcripts



**Societal benefits may include, but are not limited to:**

- Increasing participation of the full spectrum of diverse talents in STEM
- Engaging in mentoring; improving STEM education in schools
- Increasing public scientific literacy; increased public engagement with STEM
- Conducting community outreach: science clubs, radio, TV, newspapers, blogs
- Increasing collaboration between academia, industry, others

Evidence of Broader Impacts can be in all parts of the application: Personal Statement, Research Plan, letters, experiences, awards, achievements





**Thank you!**

**Graduate Research Fellowship Program  
(GRFP)**

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**Program Contacts**

**info@nsfgrfp.org**

Applicants: [info@nsfgrfp.org](mailto:info@nsfgrfp.org)

GRFP Reference Writers: [nsfgrfp.org/reference\\_writers](https://www.nsfgrfp.org/reference_writers)

GRFP Reviewers: [nsfgrfp.org/reviewers](https://www.nsfgrfp.org/reviewers)

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(toll-free from the US & Canada)

202-331-3542 (international)

[nsfgrfp.org](https://www.nsfgrfp.org)