



For Applicants to the NSF Graduate Research Fellowship Program



National Science Foundation

- Independent federal agency created in 1950
- Mission
 - To promote the progress of science
 - To advance the national health, prosperity, and welfare
 - To secure the national defense
- Funds ~20% of all federally supported basic research conducted by America's colleges and universities



- 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 in science and engineering of underrepresented groups, including women, minorities, persons with disabilities and veterans.

Outcome: Recruit and retain these individuals in the U.S. STEM workforce



NSF Graduate Research Fellowships

Five Year Awards – \$138,000

- Three years of financial support
 - \$34,000 Stipend per year



- \$12,000 Educational allowance to institution
- Professional Development Opportunities:



- Career-Life Balance Initiative (family leave)
- FASED Individuals with Disabilities
- Supercomputer access: XSEDE



NSF GRFP Fellowship

Awarded to individuals

Flexible: choice of project, advisor & program

- Portable: Any accredited U.S. institution
 - -MS, MS and PhD, PhD

No service requirement



GRFP Solicitation (NSF 16-588)

Graduate Research Fellowship Program (GRFP)

PROGRAM SOLICITATION

REPLACES DOCUMENT(S):

NSF 16-588

Provides the following information: NSF 15-597

Deadlines

- Program description
- Award information
- Eligibility requirements
- Application preparation
- Submission instructions
- Application review criteria

NSF

National Science Foundation

Directorate for Biological Sciences

Directorate for Computer & Information Science & Engineering

Directorate for Education & Human Resources Division of Graduate Education

Directorate for Engineering

Directorate for Geosciences

Directorate for Mathematical & Physical Sciences

Directorate for Social, Behavioral & Economic Sciences

Office of Integrative Activities

Office of International Science and Engineering

Application Deadline(s) (received by 5 p.m. local time of applicant's mailing address):

October 24, 2016

Life Sciences, Geosciences

October 25, 2016

Computer and information Science and Engineering, Engineering, Materials Resea

October 27, 2016

Psychology, Social Sciences, STEM Education and Learning

October 28, 2016

Chemistry, Mathematical Sciences, Physics and Astronomy

October 23, 2017

Life Sciences. Geosciences

October 24, 2017

Computer and information Science and Engineering, Engineering, Materials Resea

October 26, 2017

Psychology, Social Sciences, STEM Education and Learning



GRFP Fields of Study

- Chemistry
- Computer & Information
 Science/Engineering
- Engineering
- Geosciences
- Life Sciences
- Materials Research
- Mathematical Sciences
- Physics and Astronomy
- Psychology
- Social Sciences
- STEM Education

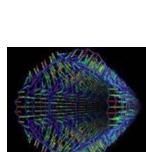
















GRFP Eligibility

- U.S. citizens and permanent residents
- Early-career: undergrad & grad students
- Pursuing research-based MS or PhD
- Science and engineering
- Enrolled in accredited institution in US by Fall



Academic Levels

- 1: Seniors or baccalaureates with no graduate study yet
- 2: First-year graduate students
- 3: Second-year graduate students
 (≤ 12 months of graduate study by August)
- 4: >12 months graduate study, with interruption in graduate study of 2+ years (can have MS degree)







Eligibility

New Eligibility Rules (NSF 16-050)



Level 1: Seniors/baccalaureates: no graduate study

Level 2: First-year graduate students

Only once in

Level 3: Second-year graduate students

grad school

≤ 12 months of graduate study by August 1, 2017

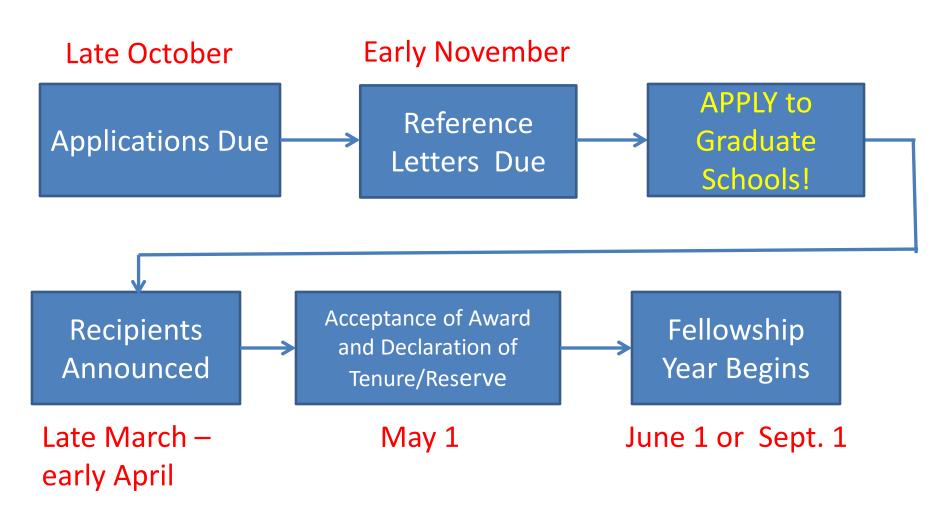
Level 4: >12 months graduate study
with an interruption in graduate study of 2+ years



Directorate for Education and Human Resources

Division of Graduate Education

GRFP Application Timeline





GRFP Complete Application

Complete Application Package:

- 1) Personal, Relevant Background and Future Goals Statement (3 pages)
- 2) Graduate Research Statement (2 pages)
- 3) Transcripts (uploaded electronically)
- 4) Three letters of reference

DEADLINES: October/November 2017

Refer to Solicitation NSF 16-588



Two Statements

Statement 1:

Personal, relevant Background and Future Goals (3 pages)

Describe your personal, educational and/or professional experiences that motivate your decision to pursue advanced study. Include examples of research and/or professional activities in which you have participated. Describe the contributions to advancing knowledge in STEM fields and the potential for broader societal impacts. Include future plans to contribute to broader impact.

Statement 2:

Graduate Research Plan (2 pages)

Present an original research topic that you would like to pursue in graduate school. Describe the research idea, your general approach. Address the potential of the research to advance knowledge and understanding within science as well as the potential for broader impacts on society.



Application Review Process

- Applications are reviewed by panels of disciplinary and interdisciplinary scientists and engineers
- Applications assigned to panels based on the applicant's chosen
 Primary Field(s) of Study and the discipline(s) represented
- Applicants are advised to select the Primary Field of Study that is most closely aligned with the proposed graduate program of study
- Holistic evaluation: a flexible, individualized way of assessing an applicant's interests and competencies by which balanced consideration is given to experiences, attributes, and academic achievements and, when considered in combination, how the applicant has demonstrated potential for significant achievements in science and engineering.



NSF Review Criteria



- Two National Science Board-approved criteria
 - -Intellectual Merit
 - Broader Impacts



Intellectual Merit and Broader impacts

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

AND

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

 Separate sections for Intellectual Merit and Broader Impacts; address in both Statements



Intellectual Merit Assessment

- Academic performance: grades, courses, awards, etc.
- Graduate Research plan
- Research/professional experience
- Reference letters

Broader Impacts Assessment

- Prior accomplishments and future plans
- Individual experiences
- Potential benefit(s) to society
- Community outreach
- Reference letters



Solicitation NSF GRFP: NSF 16-588



GRFP Advice for Applicants

- Start early
- Read Solicitation, and read it again
- Read NSF GRFP websites
- Select and confirm reference letter writers
- Pay attention to Merit Review criteria
- Identify several colleagues and have them comment on multiple statement drafts
- Share your application materials and the merit review criteria with reference writers
- Monitor receipt of reference letters (3 required for review)



Reference writers

- Select your reference writers carefully, as they will provide important information about your potential as a leader, researcher, and educator – familiarity with you as a person is important
- Your selected reference writers will submit their own references; provide them all necessary information well in advance of deadline
- You may request up to 5 references. It is your responsibility to ensure three letters of references are submitted by the published deadline in order for your application to be complete and reviewed



GRFP Resources

- NSF GRFP Website <u>www.nsf.gov/grfp</u>
 -Solicitation and links
- NSF GRFP FastLane Website: <u>www.fastlane.nsf.gov/grfp</u>
 - Application, guides, announcements
- GRFP Website: www.nsfgrfp.org
 (includes tips for applying,
 GRFP Experienced Resource List)
- Phone & e-mail
 - 866-NSF-GRFP (673-4737)
 - info@nsfgrfp.org





Portals for federally-sponsored opportunities in STEM for students

stemundergrads.science.gov

stemgradstudents.science.gov





Narrow Results:



Narrow Results:

Search

Graduate Program Type	>
Graduate Level Eligibility	>
STEM Discipline Focus	>
Institutional Location	>
Federal Agency Sponsor	>
Geographic Region	>

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