Graduate Research Fellowship Program (GRFP)

PROGRAM SOLICITATION
NSF 14-590

REPLACES DOCUMENT(S):
NSF 13-584

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 International and Integrative Activities

Application Deadline(s) (received by 8 p.m. Eastern Standard Time):
October 29, 2014
Engineering; Computer and Information Science and Engineering; Materials Research
October 30, 2014
Mathematical Sciences; Chemistry; Physics and Astronomy
November 03, 2014
Social Sciences; Psychology; STEM Education and Learning
November 04, 2014
Life Sciences; Geosciences

IMPORTANT INFORMATION AND REVISION NOTES
1. Eligibility criteria have changed with respect to post-baccalaureate study.
2. Application and reference writer deadlines have changed.
3. Fields of Study have been updated.

SUMMARY OF PROGRAM REQUIREMENTS

General Information

Program Title:
NSF Graduate Research Fellowship Program (GRFP)

Synopsis of Program:
The purpose of the NSF Graduate Research Fellowship Program (GRFP) is to help ensure the vitality and diversity of the scientific and engineering workforce of the United States. The program recognizes and supports outstanding graduate students who are pursuing research-based master’s and doctoral degrees in science and engineering. The GRFP provides three years of support for the graduate education of individuals who have demonstrated their potential for significant achievements in science and engineering.

Cognizant Program Officer(s):
Please note that the following information is current at the time of publishing. See program website for any updates to the points of contact.

• Applications, contact: GRF Operations Center, telephone: (866) 673-4737, email: info@nsfgrfp.org
Gisele Muller-Parker, telephone: (866) 673-4737, email: info@nsfgrfp.org
Pushpalatha Murthy, telephone: (866) 673-4737, email: info@nsfgrfp.org

Applicable Catalog of Federal Domestic Assistance (CFDA) Number(s):
- 47.041 --- Engineering
- 47.049 --- Mathematical and Physical Sciences
- 47.050 --- Geosciences
- 47.070 --- Computer and Information Science and Engineering
- 47.074 --- Biological Sciences
- 47.075 --- Social Behavioral and Economic Sciences
- 47.076 --- Education and Human Resources
- 47.079 --- International and Integrative Activities (IIA)
- 47.081 --- Office of Experimental Program to Stimulate Competitive Research

Award Information

Anticipated Type of Award: Fellowship
Estimated Number of Awards: 2,000
New fellowships will be offered pending availability of funds.
Anticipated Funding Amount: $333,440,000
For new and continuing awards, pending the availability of funds.
Each Fellowship consists of three years of support during a five-year fellowship period. NSF provides a stipend of $32,000 to the Fellow and a cost-of-education allowance of $12,000 to the graduate degree-granting institution for each Fellow utilizing the fellowship support in a fellowship year. Pending the availability of funds in 2015, it is anticipated that the stipend will increase to $34,000, as indicated in NSF’s FY2015 Budget Request to Congress.

Eligibility Information

Organization Limit:
Fellowship applications must be submitted by the prospective Fellow. Applicants must register with FastLane (https://www.fastlane.nsf.gov/fastlane.jsp) prior to submitting an application. Confirmation of acceptance in a graduate degree program in science or engineering is required at the time of Fellowship acceptance, no later than May 1, 2015. Prospective Fellows must enroll in a university, college, or non-profit academic institution of higher education accredited in, and having a campus located in, the United States that offers advanced degrees in science and engineering no later than fall 2015. All Fellows from the date of Acceptance through Completion or Termination of the Fellowship must be affiliated with a graduate degree-granting institution accredited in, and having a campus located in, the United States.

Applicant Eligibility:
Refer to Section IV. Additional Eligibility Information.
Limit on Number of Applications per Applicant: 1
Applicants are limited to one application in this competition.

Application Preparation and Submission Instructions

A. Application Preparation Instructions
- Letters of Intent: Not applicable
- Preliminary Proposal Submission: Not applicable
- Application Instructions: This solicitation contains information that deviates from the standard Grant Proposal Guide (GPG) proposal preparation guidelines. Please see the full text of this solicitation for further information.

B. Budgetary Information
- Cost Sharing Requirements: Inclusion of voluntary committed cost sharing is prohibited.
- Indirect Cost (F&A) Limitations: No indirect costs are allowed.
- Other Budgetary Limitations: Other budgetary limitations apply. Please see the full text of this solicitation for further information.

C. Due Dates
- Application Deadline(s) (received by 8 p.m. Eastern Standard Time):
  - October 29, 2014 Engineering; Computer and Information Science and Engineering; Materials Research
  - October 30, 2014
Application Review Information Criteria

Merit Review Criteria: National Science Board approved Merit Review Criteria (Intellectual Merit and Broader Impacts) apply.

Award Administration Information

Award Conditions: Fellowships are made subject to the provisions (and any subsequent amendments) contained in NSF 13-085: NSF Graduate Research Fellowship Program Administrative Guide for Fellows and Coordinating Officials.

Reporting Requirements:
See reporting requirements in full text of solicitation and NSF 13-085: NSF Graduate Research Fellowship Program Administrative Guide for Fellows and Coordinating Officials. Fellows are required to submit annual activity reports and to declare fellowship status by May 1 each year. Additional reporting requirements are presented in Section VII.C of this solicitation.

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I. INTRODUCTION

The NSF Graduate Research Fellowship Program (GRFP) provides Fellowships to individuals selected early in their graduate careers based on their demonstrated potential for significant achievements in science and engineering. Three years of support is provided by the program for graduate study that leads to a research-based master's or doctoral degree in science or engineering (see Fields of Study in Appendix for examples).

The program goals are 1) to select, recognize, and financially support individuals early in their careers with the demonstrated potential to be high achieving scientists and engineers, and 2) to broaden participation in science and engineering of underrepresented groups, including women, minorities, persons with disabilities, and veterans. GRFP is a critical program in NSF's overall strategy to develop the globally-engaged workforce necessary to ensure the Nation's leadership in advancing science and engineering research and innovation. The ranks of NSF Fellows include numerous individuals who have made transformative breakthrough discoveries in science and engineering, become leaders in their chosen careers, and been honored as Nobel laureates.

Applicants are encouraged to visit the NSF web page at http://www.nsf.gov/ for more information and guidance about current and
II. PROGRAM DESCRIPTION

The Graduate Research Fellowship Program (GRFP) awards Fellowships for graduate study leading to research-based master's and doctoral degrees in science and engineering. The Fields of Study listed in the Appendix are used to place applications in the most appropriate review panel and to track the disciplinary progress of Fellows and their career outcomes. Applicants may select "other" if their Field of Study is not represented in the list.

NSF Graduate Research Fellowships are awarded to individuals in the early stages of their graduate study. All applicants are expected to have adequate preparation to begin graduate-level study and research by summer or fall of 2015. This is nearly always demonstrated by a bachelor's degree in a science or engineering field earned prior to fall 2015. In addition, Fellowship awardees must be enrolled in a university, college, or non-profit academic institution of higher education accredited in, and having a campus located in, the United States that offers graduate degrees in eligible science and engineering fields by fall 2015. Confirmation of acceptance in a program which grants a graduate degree in an eligible science or engineering field is required at the time of Fellowship acceptance, by May 1, 2015. Upon acceptance of an NSF GRFP Fellowship, Fellows must certify that they meet all of the eligibility requirements as described in this Program Solicitation. All Fellows from the date of Acceptance through Completion or Termination of the Fellowship must be affiliated with a graduate degree-granting institution accredited in, and having a campus located in, the United States.

While applicants accepting the Fellowship must be affiliated with an institution having a campus located in the United States, NSF encourages United States graduate students to establish collaborative relationships with international researchers and institutions. GRFP offers the Graduate Research Opportunities Worldwide (GROW) initiative to enable Fellows to take advantage of expertise, facilities, data, and field sites located abroad; to develop an international network of collaborators early in their career; to address problems of a global nature that require international cooperation; and to be prepared upon joining the United States science and engineering workforce to collaborate successfully in international teams.

GRFP supports individuals proposing a comprehensive holistic plan for graduate education that takes into account individual interests and competencies. Thus, an applicant must provide a detailed profile of her or his relevant educational and research experiences and plans for graduate education in such a way as to demonstrate potential for significant achievements in science and engineering.

Prospective applicants are advised that submission of an application implies a commitment to the pursuit of graduate study in a research-based program in science or engineering. Acceptance of a Fellowship award is an explicit agreement that the Fellow will be duly enrolled in a graduate degree program consistent with the field of study indicated in their application by the beginning of the following academic year.

III. AWARD INFORMATION

The NSF expects to award 2,000 Graduate Research Fellowships under this program solicitation pending availability of funds.

For each Fellow, the institution receives up to a $44,000 award per Fellow utilizing the fellowship support in a fellowship year. The Graduate Research Fellowship stipend is currently $32,000 for a 12-month tenure period, prorated in whole month increments of $2,666. The cost-of-education allowance to the institution is currently $12,000 per year of fellowship support. Pending the availability of funds in 2015, it is anticipated that the stipend will increase to $34,000, as indicated in NSF’s FY2015 Budget Request to Congress.

During receipt of the fellowship support, the institution is required to exempt Fellows from paying tuition and fees normally charged to students of similar academic standing, unless such charges are optional or are refundable (i.e., the institution is responsible for tuition and required fees in excess of the cost of education allowance). Refer to NSF 13-068: NSF Graduate Research Fellowship Program Administrative Guide for Fellows and Coordinating Officials for restrictions on the use of the cost-of-education allowance.

Over the course of the five year GRFP fellowship term, Fellows are encouraged to take advantage of additional opportunities offered through the GRFP; for example, the Graduate Research Opportunities Worldwide program (http://www.nsf.gov/grow), which offers Fellows the opportunity to enhance their professional development through 3 to 12 month international research collaborations.

Fellows are provided enhanced access to cyberinfrastructure resources, including supercomputing time, through the Extreme Science and Engineering Discovery Environment (XSEDE). Please refer to http://www.xsede.org/ for more information on cyberinfrastructure resources.

All Fellowship funding will be for a maximum of three years of financial support (in 12-month allocations, starting in summer or fall) usable over a five-year fellowship period. The anticipated announcement date for the Fellowships is early April 2015.

Honorable Mention

The NSF accords Honorable Mention to meritorious applicants who do not receive Fellowship awards. This is considered a significant national academic achievement and provides access to cyberinfrastructure resources through the XSEDE. Please refer to http://www.xsede.org/ for more information on cyberinfrastructure resources.

IV. ELIGIBILITY INFORMATION

Organization Limit:

Fellowship applications must be submitted by the prospective Fellow. Applicants must register with FastLane (https://www.fastlane.nsf.gov/fastlane.jsp) prior to submitting an application. Confirmation of acceptance in a graduate degree program in science or engineering is required at the time of Fellowship acceptance, no later than May 1, 2015. Prospective Fellows must enroll in a university, college, or non-profit academic institution of higher education accredited in, and having a campus located in, the United States.
in, the United States that offers advanced degrees in science and engineering no later than fall 2015. All Fellows from the date of Acceptance through Completion or Termination of the Fellowship must be affiliated with a graduate degree-granting institution accredited in, and having a campus located in, the United States.

**Applicant Eligibility:**

Refer to Section IV. Additional Eligibility Information.

**Limit on Number of Applications per Applicant:** 1

Applicants are limited to one application in this competition.

**Additional Eligibility Info:**

Described in detail below are the three eligibility requirements for the Graduate Research Fellowship Program: (1) citizenship, (2) graduate plan of study to meet degree requirements, and (3) relevant field of study. Applicants are advised to read the entire program solicitation carefully to be sure that the requirements are interpreted properly.

**Applicants must self-certify that they are eligible to receive the Fellowship.**

**Categories of applicants that are ineligible:**

- Those who do not hold United States citizenship, national, or permanent resident status by the application deadline.
- Those who were previously awarded a Fellowship from the NSF Graduate Research Fellowship Program and accepted it.
- Those who have declined the offer of the NSF Graduate Research Fellowship and did not notify NSF or those who did not respond by the published deadline for accepting the Fellowship.
- Those who have earned any graduate or professional degree by August 1, 2014, except 1) applicants who have completed a joint baccalaureate-master's (BS/MS) program and have not completed any further graduate study outside the joint program or 2) applicants who are requesting eligibility consideration due to an extenuating circumstance (see Section IV.2).
- Current NSF employees.

**Eligibility criteria:**

1. **Citizenship**

Applicants must be United States citizens, nationals, or permanent residents of the United States by the application deadline.

The term "national" designates a native resident of a commonwealth or territory of the United States, such as American Samoa, Guam, Puerto Rico, United States Virgin Islands, or the Northern Mariana Islands. It does not refer to a citizen of another country who has applied for United States citizenship.

2. **Degree Requirements**

Fellowships are awarded to individuals in the early stages of their graduate study. Below are guidelines for determining eligibility according to the degree requirements criterion:

- Applicants are expected to have adequate preparation to begin graduate study and research by summer or fall 2015. This is nearly always demonstrated by receipt of a bachelor's degree in a science or engineering field earned prior to fall 2015.
- Individuals are typically eligible to apply:
  - During the senior year of college;
  - After graduating from college and prior to entering graduate school;
  - During the first year of graduate school;
  - Prior to completing the fall term of the second year of graduate school.
- Applicants must have completed no more than 12 months of full-time graduate study or its equivalent as of August 1, 2014. Full-time graduate study is as defined by the universities attended. There is no credit hour limit for students who have completed only full-time graduate study; eligibility for full-time students is based on the length of time enrolled in the graduate program.
- Applicants who have completed part-time graduate study (or a combination of part-time and full-time graduate study) must have completed no more than 24 semester hours or 36 quarter hours or their equivalent as of August 1, 2014.
- All graduate, post-baccalaureate, and professional study is counted toward the allowed 12 months of completed graduate study. This includes all master's, doctoral and professional degree programs.

Applicants in joint BS/MS programs are typically eligible to apply prior to completion of any further graduate study. Joint baccalaureate-master's programs are those where an institution offers students admission to both an undergraduate and graduate degree program concurrently, with a portion of the credits earned in the undergraduate program also counting towards those in a graduate program. Pursuing separate undergraduate and master's degrees at the same institution does not constitute a joint baccalaureate-master's program.

- In four-year joint programs, applicants may apply in the fourth year and after completion of the program. Completion of any graduate study outside of the joint program disqualifies an applicant.
- In five-year joint programs, applicants may apply in the fourth and fifth years of the program and after completion of the program. Completion of any further graduate study outside of the joint program disqualifies an applicant.

**Definitions of Completed Graduate Study and Extenuating Circumstance**

**Completed Graduate Study**

Applicants may have completed no more than 12 months of full-time graduate, post-baccalaureate and professional study by August 1, 2014. Pre-graduate participation in summer activities (e.g., bridge programs, field studies, lab rotations) offered by a graduate program prior to the start of the fall graduate program are not included in this total.
All graduate, post-baccalaureate and professional study is counted towards the allowed 12 months of graduate study. This includes the following:

- All master’s programs (including research-based or coursework-based programs, and “terminal” programs as well as those that are contiguous with a Ph.D. program, and professional master’s degree programs).
- All doctoral programs (including medical and professional doctoral programs).
- Graduate, post-baccalaureate and professional coursework completed outside a degree program.
- Both full-time and part-time graduate and professional degree programs.

Extenuating Circumstance

Applicants who have completed more than twelve months of graduate study or have earned a previous graduate or professional degree may be considered eligible if they have had an interruption in graduate study of at least two consecutive years prior to November 2014. To be eligible, applicants must have completed no additional graduate study by August 1, 2014. A statement describing the extenuating circumstance is required in the application.

3. Field of Study

Fellowships are awarded for graduate study leading to research-based master’s and doctoral degrees in science and engineering. The guidelines below should be used to assess eligibility according to the field of study criterion.

An individual’s proposed research and graduate study must both be in science or engineering. Fellows must enroll in a graduate degree program consistent with the relevant field of study proposed in their application and undertake a course of study leading to a research-based M.S. or PhD.

Applicants must self-certify that they are eligible to receive the Fellowship according to the following criteria.

The following programs, areas of graduate study, and research are ineligible:

- Practice-oriented professional degree programs, medical, dental, law, and public health programs are not eligible. Examples of typically ineligible degree programs include MBA, MPH, MSW, JD, MD, and DDS. Joint or combined professional degree-science programs (e.g., MD/PhD or JD/PhD) and dual professional degree-science programs are also not eligible. Applicants who are enrolled, or plan to enroll, in a graduate degree program while on a leave of absence from a professional degree program or professional degree-graduate degree joint program are ineligible for a Graduate Research Fellowship.
- Clinical (see below), counseling, business administration or management, social work, education (except in science and engineering education), or history (except in history of science) areas of graduate study are not supported.
  - Clinical study that is ineligible includes patient-oriented research, epidemiological and behavioral studies, outcomes research and health services research. For example, clinical study that is ineligible includes investigations to provide evidence leading to a scientific basis for consideration of a change in health policy or standard of care, and includes pharmacologic, non-pharmacologic, and behavioral interventions for disease prevention, prophylaxis, diagnosis, or therapy.
  - Community and other population-based intervention trials are also ineligible.
- Research with disease-related goals, including work on the etiology, diagnosis or treatment of physical or mental disease, abnormality, or malfunction in human beings is normally not supported. Animal models of such conditions or the development or testing of drugs or other procedures for their treatment also are not eligible for support. However, research in bioengineering, with diagnosis or treatment-related goals, that applies engineering principles to problems in biology and medicine while advancing engineering knowledge is eligible for support. Bioengineering research to aid persons with disabilities also is eligible.

The Graduate Research Fellowship Operations Center is responsible for responding to questions about the program. For questions concerning these guidelines, contact the Graduate Research Fellowship Operations Center, (866) 673 -4737, international (202) 331 -3542, or info@nsfgrfp.org.

V. APPLICATION PREPARATION AND SUBMISSION INSTRUCTIONS

A. Application Preparation Instructions

Fellowship applications must be submitted electronically using the NSF FastLane Graduate Research Fellowship Program Application Module at https://www.fastlane.nsf.gov/grfp/Login.do according to the deadline corresponding with the Primary Field of Study selected in the application. Applications must be received by 8 p.m. Eastern Standard Time. Applications received after the Field of Study deadline date and time will be returned without review. Applicants must first register as a FastLane user at that web site. Instructions for completing and submitting an application can be found through the "Applicant Help" link in the Fastlane GRFP Application.

Three reference letters must be submitted electronically by the reference writers through the FastLane GRFP Application Module and must be received by the reference letter deadline of November 6, 2014, by 8 p.m. Eastern Standard Time. If three reference letters are not received by the reference letter deadline and time, the application will be returned without review.

Applicants must submit the following information through the FastLane GRFP Application Module: Personal Information; Education and Other Experience; Field(s) of Study; Graduate School Information; Personal, Relevant Background and Future Goals Statement; Graduate Research Plan Statement; Eligibility Statement if applicable; Transcripts; and the names and email addresses of Reference Letter writers. Applicants should not send extraneous information or materials such as CDs, manuscripts, resumes, medical reports, or news clippings. These items will not be reviewed with an application. No additional information may be provided by links to web pages within the application, except as part of citations in the Reference Cited section. Images may be included in the page limits. Review of the application and reference letters is based solely on materials received by the application and reference letter deadlines.

Applicants must follow the instructions in the FastLane GRFP Application Module, including the instructions found at the "Applicant
The NSF Graduate Research Fellowship Program Fellowship stipend is $32,000 for a 12-month tenure period, prorated in monthly installments. Graduate Research Fellows are on Tenure at the institution. NSF awards $44,000 each year to the GRFP institution to cover the Fellow stipend and cost-of-education allowance for each NSF Graduate Research Fellow On Tenure at the institution. No indirect costs are allowed.

Indirect Cost (F&A) Limitations:
Inclusion of voluntary committed cost sharing is prohibited.

B. Budgetary Information

Cost Sharing: Inclusion of voluntary committed cost sharing is prohibited.

Indirect Cost (F&A) Limitations:
No indirect costs are allowed.

Other Budgetary Limitations:
NSF awards $44,000 each year to the GRFP institution to cover the Fellow stipend and cost-of-education allowance for each NSF Graduate Research Fellow "On Tenure" at the institution. The NSF Graduate Research Fellowship Program Fellowship stipend is $32,000 for a 12-month tenure period, prorated in monthly installments.
increments of $2,666. The institutional cost-of-education allowance is $12,000 per tenure year per Fellow. Pending the availability of funds in 2015, it is anticipated that the stipend will increase to $34,000, as indicated in NSF’s FY2015 Budget Request to Congress.

C. Due Dates

- **Application Deadline(s)** (received by 8 p.m. Eastern Standard Time):
  - October 29, 2014
    - Engineering; Computer and Information Science and Engineering; Materials Research
  - October 30, 2014
    - Mathematical Sciences; Chemistry; Physics and Astronomy
  - November 03, 2014
    - Social Sciences; Psychology; STEM Education and Learning
  - November 04, 2014
    - Life Sciences; Geosciences

D. FastLane Requirements

Applicants are required to prepare and submit all applications for this program solicitation through the FastLane system. Detailed instructions for application preparation and submission via FastLane are available at: http://www.fastlane.nsf.gov/a1/newstan.htm. For FastLane user support, call the FastLane Help Desk at 1-800-673-6188 or e-mail fastlane@nsf.gov. The FastLane Help Desk answers general technical questions related to the use of the FastLane system. Specific questions related to this program solicitation should be referred to the NSF program staff contact(s) listed in Section VIII of this solicitation.

VI. APPLICATION REVIEW INFORMATION

A. NSF Application Review Process

Applications will be reviewed online by virtual panels of disciplinary and interdisciplinary scientists and engineers and other professional graduate education experts. Panels will review applications from broad areas of related disciplines. Applicants are reviewed in panels based on their selection of a primary Field of Study (see Fields of Study in Appendix). Selection of a primary Field of Study determines the application deadline and the panel that will review the application. Thus, applicants are advised to select the Field of Study in the FastLane GRFP Application module (see Fields of Study in Appendix) that is most closely aligned with the proposed graduate program of study and research plan. Applicants who select “other” must choose a primary Field of Study on the list for placement in a review panel.

Each application will be reviewed independently in accordance with the NSF Merit Review Criteria using all available information in the completed application. In considering applications, reviewers are instructed to address the two Merit Review Criteria as approved by the National Science Board - Intellectual Merit and Broader Impacts (NSF Proposal and Award Policies and Procedures Guide). Therefore, applicants must include separate statements on Intellectual Merit and Broader Impacts in their written statements in order to provide reviewers with the information necessary to evaluate the application with respect to both Criteria as detailed below.

The following description of the Merit Review Criteria is provided in Chapter III of the NSF Proposal and Award Policies and Procedures Guide:

All NSF proposals are evaluated through use of the two National Science Board approved merit review criteria. In some instances, however, NSF will employ additional criteria as required to highlight the specific objectives of certain programs and activities.

The two merit review criteria are listed below. Both criteria are to be given full consideration during the review and decision-making processes; each criterion is necessary but neither, by itself, is sufficient. Therefore, proposers must fully address both criteria. (GPG Chapter II.C.2.d.i. contains additional information for use by proposers in development of the Project Description section of the proposal.) Reviewers are strongly encouraged to review the criteria, including GPG Chapter II.C.2.d.i., prior to the review of a proposal.

When evaluating NSF proposals, reviewers will be asked to consider what the proposers want to do, why they want to do it, how they plan to do it, how they will know if they succeed, and what benefits could accrue if the project is successful. These issues apply both to the technical aspects of the proposal and the way in which the project may make broader contributions. To that end, reviewers will be asked to evaluate all proposals against two criteria:

- Intellectual Merit: The Intellectual Merit criterion encompasses the potential to advance knowledge; and
- Broader Impacts: The Broader Impacts criterion encompasses the potential to benefit society and contribute to the achievement of specific, desired societal outcomes.

The following elements should be considered in the review for both criteria:

1. What is the potential for the proposed activity to:
   a. Advance knowledge and understanding within its own field or across different fields
Fellows and Honorable Mention recipients may request cyberinfrastructure resources through the XSEDE. Details on resources apply.

Other Opportunities for Fellowship Awardees and Honorable Mention Recipients

Failure to comply with the deadline and acceptance of award conditions by the deadline will result in revocation of the Fellowship offer and render applicants ineligible to re-apply.

Additional, Chapter II of the NSF Proposal and Award Policies and Procedures Guide states:

B. Application Review and Selection Process

Applications submitted in response to this program solicitation will be reviewed online by Panel Review.

The application evaluation involves the review, rating, and ranking of applications by disciplinary and interdisciplinary scientists and engineers, and other professional graduate education experts.

The primary responsibility of each panel is to evaluate the merit of eligible GRFP applications by applying the National Science Board-approved Merit Review Criteria of Intellectual Merit and Broader Impacts, and to subsequently recommend applicants for NSF Graduate Research Fellowships. Panelists are instructed to review the applications holistically in the context of applying NSF's Merit Review Criteria and the GRFP emphasis on demonstrated potential for significant achievements in science and engineering. NSF determines the successful applicants from these recommendations, with Fellowships and Honorable Mention offered based on the GRFP portfolio within the context of NSF's mission. After NSF Fellowship offers are made, applicants are able to view verbatim panelist comments, excluding the names of the reviewers, for a limited period of time through the NSF GRFP FastLane website.

VII. AWARD ADMINISTRATION INFORMATION

A. Notification of the Award

The Division of Graduate Education generally notifies applicants within six months after the deadline of the outcome of their applications. The NSF publishes lists of Fellowship and Honorable Mention recipients on the GRFP website at http://www.fastlane.nsf.gov/grfp/ in early April 2015.

B. Award Conditions

An NSF Graduate Research Fellowship award consists of the award notification letter that includes the applicable terms and conditions and Fellowship management instructions. All Fellowships are made subject to the provisions (and any subsequent amendments) contained in the document NSF 13-085: Administrative Guide for Fellows and GRFP Coordinating Officials.

NSF will award GRFP Fellowship Grants to the Institution providing funds for NSF Fellows who have "on tenure" status. The Institution will accept such grants, including any amendments to them and administer them in accordance with the terms of the Agreement and provisions (and any subsequent amendments) contained in the document NSF 13-085: Administrative Guide for Fellows and GRFP Coordinating Officials.

NSF Graduate Research Fellowship Program applicants will be notified in early April 2015 of their selection. The applicant must accept or decline the Fellowship by May 1, 2015 by logging into the Graduate Research Fellowship Program link at: http://www.fastlane.nsf.gov/grfp with the applicant User ID and password. Failure to comply with the deadline and acceptance of award conditions by the deadline will result in revocation of the Fellowship offer and render applicants ineligible to re-apply.

Other Opportunities for Fellowship Awardees and Honorable Mention Recipients

Fellows and Honorable Mention recipients may request cyberinfrastructure resources through the XSEDE. Details on resources
available are described at: http://www.xsede.org. Requests must be for cyberinfrastructure resources in support of research undertaken toward completion of the graduate program of study.

Facilitation Awards for Scientists and Engineers with Disabilities (FASED) provide funding for special assistance or equipment to enable persons with disabilities (students and faculty) to work on NSF-supported projects. Fellows with disabilities may apply for assistance after consulting the instructions in the document NSF 13-085: Administrative Guide for Fellows and GRFP Coordinating Officials.

SUPPORT OF INTERNATIONAL RESEARCH EXPERIENCES

Over the course of the five year GRFP fellowship period, Fellows are encouraged to take advantage of additional opportunities offered through the GRFP; for example, the Graduate Research Opportunities Worldwide (http://www.nsf.gov/grow), which offers Fellows the opportunity to enhance their professional development through 3-12 month international research collaborations.

Terms and Conditions

Awardees must formally accept and agree to the terms and conditions of the award. Acceptance of the Fellowship constitutes a commitment to pursue a graduate degree in an eligible science or engineering field. Acceptance of a Fellowship award is an explicit acceptance of this commitment and assurance that the Fellow will be duly enrolled in a graduate degree program consistent with the field of study indicated in their application by the beginning of the following academic year. Major changes in scope later in the graduate career must obtain NSF approval. NSF 13-085: Administrative Guide for Fellows and GRFP Coordinating Officials includes the terms and conditions that apply to the Fellowship and subsequent institutional award, in addition to the eligibility requirements (citizenship, degree requirements and field of study) and Certifications in the application. Each institution, in accepting the funds, also certifies that the Fellows are eligible to receive the Fellowship under these terms and conditions. Fellows are expected to make satisfactory academic progress towards completion of their graduate degrees, as defined and certified by the Fellow's GRFP institution.

The Graduate Research Fellowship may not be accepted if the individual accepts or is supported by another federal graduate fellowship.

The GRFP supports the NSF Career-Life Balance Initiative by offering limited paid and unpaid leave options for Fellows facing dependent-care issues (childbirth/adoption and elder care). NSF enables career-life balance through a variety of mechanisms. For more information, please see http://www.nsf.gov/career-life-balance/.

Responsible Conduct of Research

It is the responsibility of the Fellow, in conjunction with the GRFP institution, to ensure that all academic and research activities carried out in or outside the US comply with the laws or regulations of the US and/or of the foreign country in which the academic and/or research activities are conducted. These include appropriate human subject, animal welfare, copyright and intellectual property protection, and other regulations or laws, as appropriate. All academic and research activities should be coordinated with the appropriate US and foreign government authorities, and necessary licenses, permits, or approvals must be obtained prior to undertaking the proposed activities.

In response to the America Competes Act, all Fellows supported by NSF to conduct research are required to receive appropriate training and oversight in the Responsible and Ethical Conduct of Research.

Research Involving Human Subjects

Projects involving research with human subjects must ensure that subjects are protected from research risks in conformance with the relevant Federal policy known as the Common Rule (Federal Policy for the Protection of Human Subjects, 45 CFR 690). All projects involving human subjects must either (1) have approval from the organization's Institutional Review Board (IRB) or (2) must affirm that the IRB or an appropriate knowledgeable authority previously designated by the organization (not the Fellow) has declared the research exempt from IRB review, in accordance with the applicable subsection, as established in section 101(b) of the Common Rule. Fellows are required to comply with this policy and adhere to the organization's protocol for managing research involving human subjects.

Research Involving Vertebrate Animals

Any project proposing use of vertebrate animals for research or education shall comply with the Animal Welfare Act [7 U.S.C. 2131 et seq.] and the regulations promulgated thereunder by the Secretary of Agriculture [9 CFR 1.1-4.11] pertaining to the humane care, handling, and treatment of vertebrate animals held or used for research, teaching or other activities supported by Federal awards. In accordance with these requirements, proposed projects involving use of any vertebrate animal for research or education must be approved by the submitting organization's Institutional Animal Care and Use Committee (IACUC). For this approval to be accepted by NSF, the organization must have a current Public Health Service (PHS) Approved Assurance.

Projects involving the care or use of vertebrate animals at a foreign organization or foreign field site also require approval of research protocols by the US grantee's IACUC. If the project is to be funded through an award to a foreign organization or through an individual Fellowship award that will support activities at a foreign organization, NSF will require a statement of compliance that the activities will be conducted in accordance with all applicable laws in the foreign country and that the International Guiding Principles for Biomedical Research Involving Animals (see http://www.cioms.ch/) will be followed.

Legal Rights to Intellectual Property

The National Science Foundation claims no rights to any inventions or writings that might result from its fellowship or traineeship grants. However, fellows and trainees should be aware that the NSF, another Federal agency, or some private party may acquire such rights through other support for particular research. Also, fellows and trainees should note their obligation to include an Acknowledgment and Disclaimer in any publication.

C. Reporting Requirements

Acknowledgment of Support and Disclaimer

All publications, presentations, and creative works based on activities conducted during the Fellowship must acknowledge NSF GRFP Support and provide a disclaimer by including the following statement in the Acknowledgements or other appropriate section:

*This material is based upon work supported by the National Science Foundation Graduate Research Fellowship Program under Grant No. (NSF grant number). Any opinions, findings, and conclusions or recommendations expressed in this material are those of
the author(s) and do not necessarily reflect the views of the National Science Foundation.”

Annual Activities Report and Annual Fellowship Status Declaration

Regardless of Fellowship status, Fellows are required to submit an Annual Activities Report and to complete Fellowship Status Declaration by May 1 each year, using NSF’s FastLane electronic fellowship management and reporting system. The system permits electronic submission and updating of activity reports, including information on research accomplishments and activities related to broader impacts, presentations, publications, teaching and research assistantships, awards and recognitions, and other scholarly and service accomplishments. These reports are reviewed and satisfactory progress verified by the faculty advisor or designated graduate program administrator prior to submission to NSF.

Fellows must declare their intent to utilize the Fellowship for the following year using the NSF GRFP FastLane Fellowship management and reporting system. Failure to declare Fellowship status by the established deadline violates the terms and conditions for NSF Fellowship awards, resulting in termination of the Fellowship.

Program Evaluation

The Division of Graduate Education (DGE) conducts evaluations to provide evidence on the impact of the GRFP on individuals' educational decisions, career preparations, aspirations and progress, as well as professional productivity; and provide an understanding of the program policies in achieving the program goals. Additionally, it is highly desirable to have a structured means of tracking Fellows beyond graduation to gauge the extent to which they follow a career path consistent with the intent of the program and to assess the impact the NSF Graduate Research Fellowship has had on their graduate education experience.

Accordingly, Fellows and Honorable Mention recipients may be contacted for updates on various aspects of their employment history, professional activities and accomplishments, participation in international research collaborations, and other information helpful in evaluating the impact of the program. Fellows and their institutions agree to cooperate in program-level evaluations conducted by the NSF and/or contracted evaluators. The 2014 GRFP evaluation is posted on the "Evaluation Reports" Web page for NSF's Education and Human Resources Directorate: http://www.nsf.gov/ehr/Evaluation_Resources.jsp.

GRFP institutions are required to submit the GRFP Completion Report annually. The Completion Report allows GRFP institutions to certify the current status of all GRFP Fellows at the institution. The current status will identify a Fellow as: In Progress, Graduated, Transferred, or Withdrawn. For Fellows who have graduated, the graduation date is a required reporting element.

VIII. AGENCY CONTACTS

Please note that the program contact information is current at the time of publishing. See program website (http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=6201) for any updates to the points of contact.

General inquiries regarding this program should be made to:

- Applications, contact: GRF Operations Center, telephone: (866) 673-4737, email: info@nsfgrfp.org
- Gisele Muller-Parker, telephone: (866) 673-4737, email: info@nsfgrfp.org
- Pushpalatha Murthy, telephone: (866) 673-4737, email: info@nsfgrfp.org

For questions related to the use of FastLane, contact:

- FastLane Help Desk, telephone: 1-800-673-6188; e-mail: fastlane@nsf.gov.

The Graduate Research Fellowship Operations Center is responsible for processing applications and responding to requests for information. General inquiries regarding the Graduate Research Fellowship Program should be made to:

Graduate Research Fellowship Operations Center, telephone: 866-NSF-GRFP, 866-673-4737 (toll-free from the US and Canada) or 202-331-3542 (international), email: info@nsfgrfp.org

IX. OTHER INFORMATION

The NSF website provides the most comprehensive source of information on NSF Directorates (including contact information), programs and funding opportunities. Use of this website by potential proposers is strongly encouraged. In addition, ”NSF Update” is an information-delivery system designed to keep potential proposers and other interested parties apprised of new NSF funding opportunities and publications, important changes in proposal and award policies and procedures, and upcoming NSF Grants Conferences. Subscribers are informed through e-mail or the user’s Web browser each time new publications are issued that match their identified interests. ”NSF Update” is also available on NSF’s website at https://public.govdelivery.com/accounts/USNSF/subscriber/new?topic_id=USNSF_179.

Grants.gov provides an additional electronic capability to search for Federal government-wide grant opportunities. NSF funding opportunities may be accessed via this new mechanism. Further information on Grants.gov may be obtained at http://www.grants.gov.

Many NSF programs offer announcements or solicitations concerning specific proposal requirements. To obtain additional information about these requirements, contact the appropriate NSF program offices. Any changes in NSF’s fiscal year programs occurring after press time for the Guide to Programs will be announced in the NSF E-Bulletin, which is updated daily on the NSF Website at http://www.nsf.gov/home/ebulletin, and in individual program announcements/solicitations. Subscribers can also sign up for MyNSF, formerly the Custom News Service, at (http://www.nsf.gov/home/cns/start.htm) to be notified of new funding opportunities that become available.

Students are encouraged to gain professional experience in other countries through their university graduate programs, and to participate in international research opportunities offered by NSF at: http://www.nsf.gov/od/oise/stud-early-career.jsp. Other funding opportunities for students are available at http://www.nsfgrfp.org/.


ABOUT THE NATIONAL SCIENCE FOUNDATION

The National Science Foundation (NSF) is an independent Federal agency created by the National Science Foundation Act of 1950, as amended (42 USC 1861-75). The Act states the purpose of the NSF is "to promote the progress of science; [and] to advance the national health, prosperity, and welfare by supporting research and education in all fields of science and engineering."

NSF funds research and education in most fields of science and engineering. It does this through grants and cooperative agreements to more than 2,000 colleges, universities, K-12 school systems, businesses, informal science organizations and other research organizations throughout the US. The Foundation accounts for about one-fourth of Federal support to academic institutions for basic research.

NSF receives approximately 55,000 proposals each year for research, education and training projects, of which approximately 11,000 are funded. In addition, the Foundation receives several thousand applications for graduate and postdoctoral fellowships. The agency operates no laboratories itself but does support National Research Centers, user facilities, certain oceanographic vessels and Arctic and Antarctic research stations. The Foundation also supports cooperative research between universities and industry, US participation in international scientific and engineering efforts, and educational activities at every academic level.

Facilitation Awards for Scientists and Engineers with Disabilities provide funding for special assistance or equipment to enable persons with disabilities to work on NSF-supported projects. See Grant Proposal Guide Chapter II, Section D.2 for instructions regarding preparation of these types of proposals.

The National Science Foundation has Telephonic Device for the Deaf (TDD) and Federal Information Relay Service (FIRS) capabilities that enable individuals with hearing impairments to communicate with the Foundation about NSF programs, employment or general information. TDD may be accessed at (703) 292-5090 and (800) 281-8749, FIRS at (800) 877-8339.

The National Science Foundation Information Center may be reached at (703) 292-5111.

To get the latest information about program deadlines, to download copies of NSF publications, and to access abstracts of awards, visit the NSF Website at http://www.nsf.gov

- **Location:** 4201 Wilson Blvd. Arlington, VA 22230
- **For General Information (NSF Information Center):** (703) 292-5111
- **TDD (for the hearing-impaired):** (703) 292-5090
- **To Order Publications or Forms:**
  - Send an e-mail to: nsfpubs@nsf.gov
  - or telephone: (703) 292-7827
- **To Locate NSF Employees:** (703) 292-5111

PRIVACY ACT AND PUBLIC BURDEN STATEMENTS

The information requested on the application materials is solicited under the authority of the National Science Foundation Act of 1950, as amended. It will be used in connection with the selection of qualified applicants and may be disclosed to qualified reviewers as part of the review process; to the institution the nominee, applicant or fellow is attending or is planning to attend or is employed by for the purpose of facilitating review or award decisions, or administering fellowships or awards; to government contractors, experts, volunteers and other individuals who perform a service to or work under a contract, grant, cooperative agreement, advisory committee, committee of visitors, or other arrangement with the Federal government as necessary to complete assigned work; to other government agencies needing data regarding applicants or nominees as part of the review process, or in order to coordinate programs; and to another Federal agency, court or party in a court or Federal administrative proceeding if the government is a party. Information from this system may be merged with other computer files to carry out statistical studies the results of which do not identify individuals. Notice of the agency's decision may be given to nominators, and disclosure may be made of awardees' names, home institutions, and fields of study for public information purposes. For fellows or awardees receiving stipends directly from the government, information is transmitted to the Department of the Treasury to make payments. See System of Records, NSF-12, "Fellowships and Other Awards." 63 Federal Register 265 (January 5, 1998). Submission of the information is voluntary; however, failure to provide full and complete information may reduce the possibility of your receiving an award.

An agency may not conduct or sponsor, and a person is not required to respond to, an information collection unless it displays a valid Office of Management and Budget (OMB) control number. The OMB control number for this collection is 3145-0023. Public reporting burden for this collection of information is estimated to average 12 hours per response, including the time for reviewing instructions. Send comments regarding this burden estimate and any other aspect of this collection of information, including suggestions for reducing this burden, to:

Suzanne H. Plimpton
Reports Clearance Officer
Office of the General Counsel
X. APPENDIX

NATIONAL SCIENCE FOUNDATION GRADUATE RESEARCH FELLOWSHIPS

Fields of Study

Note: Applications are reviewed in panels based on the selection of a primary Field of Study. Selection of a primary Field of Study determines the application deadline and the panel that will review the application. Applicants may select “other” if their Field of Study is not represented in the list under each Primary Field of Study. The “other” field of study category should only be selected by applicants if the proposed field of study is not covered by one of the following fields, and should not be used to designate a field of study that is more specific than the fields listed.

CHEMISTRY

Chemical Catalysis
Chemical Measurement and Imaging
Chemical Structure, Dynamics, and Mechanism
Chemical Synthesis
Chemical Theory, Models and Computational Methods
Chemistry of Life Processes
Environmental Chemical Systems
Macromolecular, Supramolecular, and Nanochemistry
Sustainable Chemistry
Chemistry, other (specify)

COMPUTER AND INFORMATION SCIENCE AND ENGINEERING (CISE)

Algorithms and Theoretical Foundations
Bioinformatics and other Informatics
Communication and Information Theory
Computational Science and Engineering
Computer Architecture
Computer Networks
Computer Security and Privacy
Computer Systems and Embedded Systems
Databases
Data Mining and Information Retrieval
Formal Methods, Verification, and Programming Languages
Graphics and Visualization
Human Computer Interaction
Machine Learning
Natural Language Processing
Robotics and Computer Vision
Software Engineering
CISE, other (specify)

ENGINEERING

Aeronautical and Aerospace
Bioengineering
Biomedical
Chemical Engineering
Civil Engineering
Computer Engineering
Electrical and Electronic
Energy
Environmental
Industrial Engineering & Operations Research
Materials
Mechanical
Nuclear
Ocean
Optical Engineering
Polymer
Systems Engineering
Engineering, other (specify)

GEOSCIENCES

Atmospheric Chemistry
Aeronomy
Biogeochemistry
Biological Oceanography
Chemical Oceanography
Climate and Large-Scale Atmospheric Dynamics
Geobiology
Geochemistry
Geomorphology
Geodynamics
Geophysics
Glaciology
Hydrology
Magnetospheric Physics
Marine Biology
Marine Geology and Geophysics
Paleoclimate
Paleontology and Paleobiology
Petrology
Physical and Dynamic Meteorology
Physical Oceanography
Planetary Science
Sedimentary Geology
Solar Physics
Tectonics
Geosciences, other (specify)

LIFE SCIENCES
Biochemistry
Bioinformatics and Computational Biology
Biophysics
Cell Biology
Developmental Biology
Ecology
Environmental Biology
Evolutionary Biology
Genetics
Genomics
Microbial Biology
Neurosciences
Organismal Biology
Physiology
Proteomics
Structural Biology
Systematics and Biodiversity
Systems and Molecular Biology
Life Sciences, other (specify)

MATERIALS RESEARCH
Biomaterials
Ceramics
Chemistry of materials
Electronic materials
Materials theory
Metallic materials
Photonic materials
Physics of materials
Polymers
Materials Research, other (specify)

MATHEMATICAL SCIENCES
Algebra, Number Theory, and Combinatorics
Analysis
Applied Mathematics
Biostatistics
Computational and Data-enabled Science
Computational Mathematics
Computational Statistics
Geometric Analysis
Logic or Foundations of Mathematics
Mathematical Biology
Probability
Statistics
Topology
Mathematics, other (specify)

PHYSICS AND ASTRONOMY
Astronomy and Astrophysics
Atomic, Molecular and Optical Physics
Condensed Matter Physics
Nuclear
Particle Physics
Physics of Living Systems
Plasma
Solid State
Theoretical Physics
Physics, other (specify)

PSYCHOLOGY
Cognitive
Cognitive Neuroscience
Computational Psychology
Developmental
Experimental or Comparative
Industrial/Organizational
Neuropsychology
Perception and Psychophysics
Personality and Individual Differences
Physiological
Psycholinguistics
Quantitative
Social
Psychology, other (specify)

SOCIAL SCIENCES

Archaeology
Biological Anthropology
Cultural Anthropology
Anthropology, other
Communications
Decision Making and Risk analysis
Economics (except Business Administration)
Geography
History and Philosophy of Science
International Relations
Law and Social Science
Linguistics
Linguistic Anthropology
Medical Anthropology
Political Science
Public Policy
Science Policy
Sociology (except Social Work)
Urban and Regional Planning
Social Sciences, other (specify)

STEM EDUCATION AND LEARNING RESEARCH

Engineering Education
Mathematics Education
Science Education
Technology Education
STEM Education and Learning Research, other (specify)

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