Faculty Development in the Space Sciences

PROGRAM SOLICITATION
NSF 19-558

National Science Foundation
Directorate for Geosciences
Division of Atmospheric and Geospace Sciences

Full Proposal Deadline(s) (due by 5 p.m. submitter's local time):
May 24, 2019

IMPORTANT INFORMATION AND REVISION NOTES

Any proposal submitted in response to this solicitation should be submitted in accordance with the revised NSF Proposal & Award Policies & Procedures Guide (PAPPG) (NSF 19-1).

SUMMARY OF PROGRAM REQUIREMENTS

General Information

Program Title:
Faculty Development in the Space Sciences (FDSS)

Synopsis of Program:
The Geospace Section of the Division of Atmospheric and Geospace Sciences is pleased to offer awards for the creation of new tenure-track faculty positions within the intellectual disciplines which comprise the space sciences to ensure the health and vitality of solar and space sciences on university teaching faculties. The aim of these awards is to integrate research topics in solar and space physics into basic physics, astronomy, electrical engineering, geoscience, meteorology, computer science, and applied mathematics programs, and to develop space physics graduate programs capable of training the next generation of leaders in this field. Space Science is interdisciplinary in nature and the Faculty Development in the Space Sciences awardees will be expected to establish partnerships within the university community. NSF funding will support the entire academic year salary and benefits of the newly recruited tenure-track faculty member for a duration of up to five years with a total award amount not to exceed $1,500,000.

Cognizant Program Officer(s):
Ilia I Roussev, PhD, PMP, FMP, telephone: (703) 292-8519, email: iroussev@nsf.gov

Applicable Catalog of Federal Domestic Assistance (CFDA) Number(s):
47.050 --- Geosciences

Award Information

Anticipated Type of Award: Continuing Grant

Estimated Number of Awards: 3 to 4
3 to 4 awards are expected depending upon the quality of the submissions and availability of funds.

Anticipated Funding Amount: $4,500,000
An approximate maximum of $4,500,000 is expected to be awarded for selected proposals over five years, beginning with $900,000 in FY2019. Estimated program budget and average award size/duration is subject to availability of funds.
Eligibility Information

Who May Submit Proposals:

Proposals may only be submitted by the following:

- Institutions of Higher Education (IHEs) - Two- and four-year IHEs (including community colleges) accredited in, and having a campus located in the US, acting on behalf of their faculty members.

Proposing institutions are restricted to research and teaching institutions that offer degrees in astronomy, engineering, physical sciences, geosciences, computer sciences, mathematics or related sciences. The institution must be based in the United States, its territories or possessions. The institution must be able to grant tenure status.

Who May Serve as PI:

Principal Investigators should be someone at the university with the authority to implement the proposed program and select and hire the new faculty member. These may be, but are not limited to, a Dean, a Provost, a Director of a university associated research institute, a Department Chairperson, or a senior tenured faculty member.

Limit on Number of Proposals per Organization:

Institutions may submit only one proposal in response to this solicitation.

Limit on Number of Proposals per PI or Co-PI:

There are no restrictions or limits.

Proposal Preparation and Submission Instructions

A. Proposal Preparation Instructions

- Letters of Intent: Not required
- Preliminary Proposal Submission: Not required
- Full Proposals:

B. Budgetary Information

- Cost Sharing Requirements:
  Inclusion of voluntary committed cost sharing is prohibited.
- Indirect Cost (F&A) Limitations:
  Not Applicable
- Other Budgetary Limitations:
  Other budgetary limitations apply. Please see the full text of this solicitation for further information.

C. Due Dates

- Full Proposal Deadline(s) (due by 5 p.m. submitter’s local time):
  May 24, 2019

Proposal Review Information Criteria

Merit Review Criteria:

National Science Board approved criteria. Additional merit review considerations apply. Please see the full text of this solicitation for further information.

Award Administration Information
I. INTRODUCTION

Within the current administrative structure of most American universities, research and education in the space sciences does not fall under the purview of any particular department (i.e., physics, astronomy, geophysics, electrical engineering, applied mathematics). It therefore comes as no surprise that the last several decades have witnessed a gradual erosion of faculty positions that are principally devoted to the education and training of future space scientists. At the same time, as we rely more heavily upon technical systems sensitive to conditions in the space environment, such as the electronic workplace, global positioning systems and high-speed communications networks, space scientists are becoming more valuable to our society. Communications, navigation and energy production and distribution are significantly affected by Space Weather, and the climatology of the near-Earth space environment. The ability to forecast disturbances which may impact these technologies hinges upon detailed knowledge and understanding of the connected Sun-Earth system, comprising the disciplines of solar physics, heliospheric physics, magnetospheric physics and aeronomy.

This solicitation provides both support and incentive for universities to reverse this trend, and to create new tenure-track faculty positions in the space sciences. With this Program Solicitation, the National Science Foundation addresses the recommendation that the Committee on a Decadal Strategy for Solar and Space Physics of the National Research Council presented in the 2012 Solar and Space Physics: A Science for a Technological Society as well as the recommendation from the Geospace Portfolio Review.

II. PROGRAM DESCRIPTION

Proposals submitted in response to this program solicitation will have as their principal objective the creation and support of a single tenure-track faculty position, bearing teaching, educational outreach, and research responsibilities. The faculty position may reside within one department or be shared between several departments. In either case, the proposal must clearly state how topics in space physics will be integrated into the undergraduate and/or graduate courses offered by the department(s), and it should describe how the new faculty position will be utilized to support and sustain space physics education.

The proposal must make clear how the position will be integrated into the institution’s overall strategic plan. It needs to set specific...
goals and milestones to gauge the overall efficacy of the integration and educational outreach. A specific evaluation plan shall be presented in the proposal. It will be critical for the institution to state in full the measures it will take to ensure the successful integration of the faculty position.

The proposal shall not designate any candidate for the new faculty position, but a description of the desired skills, background and training of the desired candidate must be included. Particular emphasis will be placed upon evaluating the:

- Clear articulation of how the faculty position will be integrated into the university program of education, outreach and research.
- Plan for space physics curriculum development.
- Potential for the faculty position to attract capable students and train future scientists in space physics.
- Plan for developing partnerships both within the university and the space sciences community.
- Metrics developed to ascertain the success of the program.
- Pro-active activities to foster participation by women and underrepresented groups.

The proposal must contain a description of how the job search would be carried out. It is required that the search be open and widely publicized. Consonant with the stated policies of the National Science Foundation, women, minorities and other underrepresented groups should be strongly encouraged to apply.

NSF funding will support the entire academic year salary and benefits of the newly recruited tenure-track faculty for the duration of the award. The maximum total award size will be $1,500,000.

Once a specific candidate is determined by the university, NSF will decide if the proposed research program and qualifications of the candidate meet the requirements of NSF’s review criteria and addresses the stated objectives of this solicitation. The successful candidate will be added to the grant as a Co-Principal Investigator. Continuation of the award beyond the first year is contingent on the successful hiring of a new tenure-track faculty member who meets the intent of this solicitation. It is expected that the majority of the first year’s budget costs, e.g. salary, lab equipment, will be associated with the new hire and will not be spent until that individual is in place. See the special award conditions in Section VII.B for more information candidate selection process will be evaluated.

In order to allow sufficient time for the candidate to stand for tenure review or at least complete a pre-tenure review at or before the end of the award period it is expected that awards will last for 5 years.

Principal Investigators should be someone at the university with the authority to implement the proposed program and select and hire the new faculty member. These may be, but are not limited to, a Dean, a Provost, a Director of a university associated research institute, a Department Chairperson, or a senior tenured faculty member.

Depending on the NSF assessment of the impact of the program on the field and the availability of funds this solicitation may be reissued in 4-5 years.

III. AWARD INFORMATION

An approximate maximum of $4,500,000 is expected to be awarded for selected proposals over five years, beginning with $900,000 in FY2019. Depending on the availability of funds, NSF expects to make three to four awards. Under this solicitation proposals may be submitted for any funding amount per year up to $300,000 per year for five years. The maximum total award size will be $1,500,000. Each award will be made as a continuing grant. NSF funding will support the entire academic year salary and benefits of the newly recruited tenure-track faculty member.

IV. ELIGIBILITY INFORMATION

Who May Submit Proposals:

- Institutions of Higher Education (IHEs) - Two- and four-year IHEs (including community colleges) accredited in, and having a campus located in the US, acting on behalf of their faculty members.

Proposing institutions are restricted to research and teaching institutions that offer degrees in astronomy, engineering, physical sciences, geosciences, computer sciences, mathematics or related sciences. The institution must be based in the United States, its territories or possessions. The institution must be able to grant tenure status.

Who May Serve as PI:

Principal Investigators should be someone at the university with the authority to implement the proposed program and select and hire the new faculty member. These may be, but are not limited to, a Dean, a Provost, a Director of a university associated research institute, a Department Chairperson, or a senior tenured faculty member.

Limit on Number of Proposals per Organization: 1

Institutions may submit only one proposal in response to this solicitation.

Limit on Number of Proposals per PI or Co-PI:
There are no restrictions or limits.

**Additional Eligibility Info:**

The successful candidate will be added as a co-PI on the award, subject to NSF's prior written approval and in accordance with standard agency policies and procedures. It is expected that grantees will initiate a job search to determine an appropriate candidate to fill the tenure-track faculty position. Candidates already in tenured or tenure track positions, or those whose research interests are only marginally related to space science are not eligible for FDSS support.

The candidate selected must meet the intent of this solicitation. The cognizant NSF Program Officer may request information about the candidate to confirm that the intent of this solicitation is being met. Such information may include, and is not limited to:

1. A description of the search including details of efforts undertaken to broaden participation;
2. A curriculum vitae;
3. A publication list; and
4. A statement of research interests and proposed educational outreach and teaching plans of the successful candidate.

**V. PROPOSAL PREPARATION AND SUBMISSION INSTRUCTIONS**

**A. Proposal Preparation Instructions**

**Full Proposal Preparation Instructions:** Proposers may opt to submit proposals in response to this Program Solicitation via Grants.gov or via the NSF FastLane system.

- **Full proposals submitted via FastLane:** Proposals submitted in response to this program solicitation should be prepared and submitted in accordance with the general guidelines contained in the NSF Proposal & Award Policies & Procedures Guide (PAPPG). The complete text of the PAPPG is available electronically on the NSF website at: https://www.nsf.gov/publications/pub_summ.jsp?ods_key=pappg. Paper copies of the PAPPG may be obtained from the NSF Publications Clearinghouse, telephone (703) 292-7827 or by e-mail from nsfpubs@nsf.gov. Proposers are reminded to identify this program solicitation number in the program solicitation block on the NSF Cover Sheet For Proposal to the National Science Foundation. Compliance with this requirement is critical to determining the relevant proposal processing guidelines. Failure to submit this information may delay processing.

- **Full proposals submitted via Grants.gov:** Proposals submitted in response to this program solicitation via Grants.gov should be prepared and submitted in accordance with the NSF Grants.gov Application Guide: A Guide for the Preparation and Submission of NSF Applications via Grants.gov. The complete text of the NSF Grants.gov Application Guide is available on the Grants.gov website and on the NSF website at: (https://www.nsf.gov/publications/pub_summ.jsp?ods_key=grantsgovguide). To obtain copies of the Application Guide and Application Forms Package, click on the Apply tab on the Grants.gov site, then click on the Apply Step 1: Download a Grant Application Package and Application Instructions link and enter the funding opportunity number, (the program solicitation number without the NSF prefix) and press the Download Package button. Paper copies of the Grants.gov Application Guide also may be obtained from the NSF Publications Clearinghouse, telephone (703) 292-7827 or by e-mail from nsfpubs@nsf.gov.

See PAPPG Chapter II.C.2 for guidance on the required sections of a full research proposal submitted to NSF. Please note that the proposal preparation instructions provided in this program solicitation may deviate from the PAPPG instructions.

Additional information regarding proposal preparation is contained in **Section II. Program Description** above.

**B. Budgetary Information**

**Cost Sharing:**

Inclusion of voluntary committed cost sharing is prohibited.

**Other Budgetary Limitations:**

The maximum total award size will be $1,500,000.

**C. Due Dates**

- **Full Proposal Deadline(s) (due by 5 p.m. submitter's local time):**
  
  May 24, 2019

**D. FastLane/Grants.gov Requirements**
For Proposals Submitted Via FastLane:

To prepare and submit a proposal via FastLane, see detailed technical instructions available at: https://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 funding opportunity.

For Proposals Submitted Via Grants.gov:

Before using Grants.gov for the first time, each organization must register to create an institutional profile. Once registered, the applicant's organization can then apply for any federal grant on the Grants.gov website. Comprehensive information about using Grants.gov is available on the Grants.gov Applicant Resources webpage: http://www.grants.gov/web/grants/applicants.html. In addition, the NSF Grants.gov Application Guide (see link in Section V.A) provides instructions regarding the technical preparation of proposals via Grants.gov. For Grants.gov user support, contact the Grants.gov Contact Center at 1-800-518-4726 or by email: support@grants.gov. The Grants.gov Contact Center answers general technical questions related to the use of Grants.gov. Specific questions related to this program solicitation should be referred to the NSF program staff contact(s) listed in Section VIII of this solicitation.

Submitting the Proposal: Once all documents have been completed, the Authorized Organizational Representative (AOR) must submit the application to Grants.gov and verify the desired funding opportunity and agency to which the application is submitted. The AOR must then sign and submit the application to Grants.gov. The completed application will be transferred to the NSF FastLane system for further processing.

Proposers that submitted via FastLane are strongly encouraged to use FastLane to verify the status of their submission to NSF. For proposers that submitted via Grants.gov, until an application has been received and validated by NSF, the Authorized Organizational Representative may check the status of an application on Grants.gov. After proposers have received an e-mail notification from NSF, Research.gov should be used to check the status of an application.

VI. NSF PROPOSAL PROCESSING AND REVIEW PROCEDURES

Proposals received by NSF are assigned to the appropriate NSF program for acknowledgement and, if they meet NSF requirements, for review. All proposals are carefully reviewed by a scientist, engineer, or educator serving as an NSF Program Officer, and usually by three to ten other persons outside NSF either as ad hoc reviewers, panelists, or both, who are experts in the particular fields represented by the proposal. These reviewers are selected by Program Officers charged with oversight of the review process. Proposers are invited to suggest names of persons they believe are especially well qualified to review the proposal and/or persons they would prefer not review the proposal. These suggestions may serve as one source in the reviewer selection process at the Program Officer’s discretion. Submission of such names, however, is optional. Care is taken to ensure that reviewers have no conflicts of interest with the proposal. In addition, Program Officers may obtain comments from site visits before recommending final action on proposals.

Senior NSF staff further review recommendations for awards. A flowchart that depicts the entire NSF proposal and award process (and associated timeline) is included in PAPPG Exhibit III-1.

A comprehensive description of the Foundation’s merit review process is available on the NSF website at: https://www.nsf.gov/bfa/dias/policy/merit_review/.

Proposers should also be aware of core strategies that are essential to the fulfillment of NSF’s mission, as articulated in Building the Future: Investing in Discovery and Innovation - NSF Strategic Plan for Fiscal Years (FY) 2018 – 2022. These strategies are integrated in the program planning and implementation process, of which proposal review is one part. NSF’s mission is particularly well-implemented through the integration of research and education and broadening participation in NSF programs, projects, and activities.

One of the strategic objectives in support of NSF’s mission is to foster integration of research and education through the programs, projects, and activities it supports at academic and research institutions. These institutions must recruit, train, and prepare a diverse STEM workforce to advance the frontiers of science and participate in the U.S. technology-based economy. NSF’s contribution to the national innovation ecosystem is to provide cutting-edge research under the guidance of the Nation’s most creative scientists and engineers. NSF also supports development of a strong science, technology, engineering, and mathematics (STEM) workforce by investing in building the knowledge that informs improvements in STEM teaching and learning.

NSF’s mission calls for the broadening of opportunities and expanding participation of groups, institutions, and geographic regions that are underrepresented in STEM disciplines, which is essential to the health and vitality of science and engineering. NSF is committed to this principle of diversity and deems it central to the programs, projects, and activities it considers and supports.

A. Merit Review Principles and Criteria

The National Science Foundation strives to invest in a robust and diverse portfolio of projects that creates new knowledge and enables breakthroughs in understanding across all areas of science and engineering research and education. To identify which projects to support, NSF relies on a merit review process that incorporates consideration of both the technical aspects of a proposed project and its potential to contribute more broadly to advancing NSF’s mission “to promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense; and for other purposes.” NSF makes every effort to conduct a fair, competitive, transparent merit review process for the selection of projects.

1. Merit Review Principles

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These principles are to be given due diligence by PIs and organizations when preparing proposals and managing projects, by reviewers when reading and evaluating proposals, and by NSF program staff when determining whether or not to recommend proposals for funding and while overseeing awards. Given that NSF is the primary federal agency charged with nurturing and supporting excellence in basic research and education, the following three principles apply:

- All NSF projects should be of the highest quality and have the potential to advance, if not transform, the frontiers of knowledge.
- NSF projects, in the aggregate, should contribute more broadly to achieving societal goals. These "Broader Impacts" may be accomplished through the research itself, through activities that are directly related to specific research projects, or through activities that are supported by, but are complementary to, the project. The project activities may be based on previously established and/or innovative methods and approaches, but in either case must be well justified.
- Meaningful assessment and evaluation of NSF funded projects should be based on appropriate metrics, keeping in mind the likely correlation between the effect of broader impacts and the resources provided to implement projects. If the size of the activity is limited, evaluation of that activity in isolation is not likely to be meaningful. Thus, assessing the effectiveness of these activities may best be done at a higher, more aggregated, level than the individual project.

With respect to the third principle, even if assessment of Broader Impacts outcomes for particular projects is done at an aggregated level, PIs are expected to be accountable for carrying out the activities described in the funded project. Thus, individual projects should include clearly stated goals, specific descriptions of the activities that the PI intends to do, and a plan in place to document the outputs of those activities.

These three merit review principles provide the basis for the merit review criteria, as well as a context within which the users of the criteria can better understand their intent.

### 2. Merit Review Criteria

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. (PAPPG 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 PAPPG 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 (Intellectual Merit); and
   b. Benefit society or advance desired societal outcomes (Broader Impacts)?
2. To what extent do the proposed activities suggest and explore creative, original, or potentially transformative concepts?
3. Is the plan for carrying out the proposed activities well-reasoned, well-organized, and based on a sound rationale? Does the plan incorporate a mechanism to assess success?
4. How well qualified is the individual, team, or organization to conduct the proposed activities?
5. Are there adequate resources available to the PI (either at the home organization or through collaborations) to carry out the proposed activities?

Broader impacts may be accomplished through the research itself, through the activities that are directly related to specific research projects, or through activities that are supported by, but are complementary to, the project. NSF values the advancement of scientific knowledge and activities that contribute to achievement of societally relevant outcomes. Such outcomes include, but are not limited to:

- full participation of women, persons with disabilities, and underrepresented minorities in science, technology, engineering, and mathematics (STEM); improved STEM education and educator development at any level; increased public scientific literacy and public engagement with science and technology; improved well-being of individuals in society; development of a diverse, globally competitive STEM workforce; increased partnerships between academia, industry, and others; improved national security; increased economic competitiveness of the United States; and enhanced infrastructure for research and education.

Proposers are reminded that reviewers will also be asked to review the Data Management Plan and the Postdoctoral Researcher Mentoring Plan, as appropriate.

### Additional Solicitation Specific Review Criteria

Particular emphasis will be placed upon evaluating the:

- Relevance of the propose desired skills, background and training of the candidate to space science.
- Clear articulation of how the faculty position will be integrated into the university program of education, outreach and research.
- Plan for space physics curriculum development.
- Potential for the faculty position to attract capable students and train future scientists in space physics.
- Plan for developing partnerships both within the university and the space sciences community.
- Metrics developed to ascertain the success of the program.
- Pro-active activities to foster participation by women and underrepresented groups.
B. Review and Selection Process

Proposals submitted in response to this program solicitation will be reviewed by Ad hoc Review and/or Panel Review.

Reviewers will be asked to evaluate proposals using two National Science Board approved merit review criteria and, if applicable, additional program specific criteria. A summary rating and accompanying narrative will generally be completed and submitted by each reviewer and/or panel. The Program Officer assigned to manage the proposal's review will consider the advice of reviewers and will formulate a recommendation.

After scientific, technical and programmatic review and consideration of appropriate factors, the NSF Program Officer recommends to the cognizant Division Director whether the proposal should be declined or recommended for award. NSF strives to be able to tell applicants whether their proposals have been declined or recommended for funding within six months. Large or particularly complex proposals or proposals from new awardees may require additional review and processing time. The time interval begins on the deadline or target date, or receipt date, whichever is later. The interval ends when the Division Director acts upon the Program Officer's recommendation.

After programmatic approval has been obtained, the proposals recommended for funding will be forwarded to the Division of Grants and Agreements for review of business, financial, and policy implications. After an administrative review has occurred, Grants and Agreements Officers perform the processing and issuance of a grant or other agreement. Proposers are cautioned that only a Grants and Agreements Officer may make commitments, obligations or awards on behalf of NSF or authorize the expenditure of funds. No commitment on the part of NSF should be inferred from technical or budgetary discussions with a NSF Program Officer. A Principal Investigator or organization that makes financial or personnel commitments in the absence of a grant or cooperative agreement signed by the NSF Grants and Agreements Officer does so at their own risk.

Once an award or declination decision has been made, Principal Investigators are provided feedback about their proposals. In all cases, reviews are treated as confidential documents. Verbatim copies of reviews, excluding the names of the reviewers or any reviewer-identifying information, are sent to the Principal Investigator/Project Director by the Program Officer. In addition, the proposer will receive an explanation of the decision to award or decline funding.

VII. AWARD ADMINISTRATION INFORMATION

A. Notification of the Award

Notification of the award is made to the submitting organization by a Grants Officer in the Division of Grants and Agreements. Organizations whose proposals are declined will be advised as promptly as possible by the cognizant NSF Program administering the program. Verbatim copies of reviews, not including the identity of the reviewer, will be provided automatically to the Principal Investigator. (See Section VI.B. for additional information on the review process.)

B. Award Conditions

An NSF award consists of: (1) the award notice, which includes any special provisions applicable to the award and any numbered amendments thereto; (2) the budget, which indicates the amounts, by categories of expense, on which NSF has based its support (or otherwise communicates any specific approvals or disapprovals of proposed expenditures); (3) the proposal referenced in the award notice; (4) the applicable award conditions, such as Grant General Conditions (GC-1)*; or Research Terms and Conditions* and (5) any announcement or other NSF issuance that may be incorporated by reference in the award notice. Cooperative agreements also are administered in accordance with NSF Cooperative Agreement Financial and Administrative Terms and Conditions (CA-FATC) and the applicable Programmatic Terms and Conditions. NSF awards are electronically signed by an NSF Grants and Agreements Officer and transmitted electronically to the organization via e-mail.

*These documents may be accessed electronically on NSF's Website at https://www.nsf.gov/awards/managing/award_conditions.jsp. Paper copies may be obtained from the NSF Publications Clearinghouse, telephone (703) 292-7827 or by e-mail from nsfpubs@nsf.gov.


Special Award Conditions:

This award was made based on the ability of the grantee to (1) successfully hire a candidate in accordance with established organizational policies and procedures and consistent with the process described in the NSF approved proposal; and (2) agree to put this candidate forward for consideration for tenure at or before the conclusion of the award. In the event that the institution's internal regulations do not allow for tenure within 5 years, a pre-tenure review prior to the end of the award is acceptable.

After the award has been made and the candidate has been hired, the grantee organization shall request (via NSF's electronic systems) that the candidate be added as a co-PI to the award. The grantee organization must immediately notify the cognizant NSF Program Officer if, at any time during the award, the candidate hired into the new Space Science faculty line should terminate their association with the award. In such cases, NSF will have the discretion to terminate the award or permit the organization to open a new search process to fill the vacant position.
C. Reporting Requirements

For all multi-year grants (including both standard and continuing grants), the Principal Investigator must submit an annual project report to the cognizant Program Officer no later than 90 days prior to the end of the current budget period. (Some programs or awards require submission of more frequent project reports). No later than 120 days following expiration of a grant, the PI also is required to submit a final project report, and a project outcomes report for the general public.

Failure to provide the required annual or final project reports, or the project outcomes report, will delay NSF review and processing of any future funding increments as well as any pending proposals for all identified PIs and co-PIs on a given award. PIs should examine the formats of the required reports in advance to assure availability of required data.

PIs are required to use NSF’s electronic project-reporting system, available through Research.gov, for preparation and submission of annual and final project reports. Such reports provide information on accomplishments, project participants (individual and organizational), publications, and other specific products and impacts of the project. Submission of the report via Research.gov constitutes certification by the PI that the contents of the report are accurate and complete. The project outcomes report also must be prepared and submitted using Research.gov. This report serves as a brief summary, prepared specifically for the public, of the nature and outcomes of the project. This report will be posted on the NSF website exactly as it is submitted by the PI.


The annual and final project reports for the award are required to explicitly address the strategic goals for the strengthening and integration of space physics in the department(s) involved in the new faculty position. This should include, but is not limited to, a description of the progress achieved on these objectives as well as an evaluation of the advances made according to the metrics for this that were outlined in the proposal, including any modifications or additions to these that may have been required during the review and award process.

VIII. AGENCY CONTACTS

Please note that the program contact information is current at the time of publishing. See program website for any updates to the points of contact.

General inquiries regarding this program should be made to:

- Ilia I Roussev, PhD, PMP, FMP, telephone: (703) 292-8519, email: iroussev@nsf.gov

For questions related to the use of FastLane, contact:

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

For questions relating to Grants.gov contact:

- Grants.gov Contact Center: If the Authorized Organizational Representatives (AOR) has not received a confirmation message from Grants.gov within 48 hours of submission of application, please contact via telephone: 1-800-516-4726; e-mail: support@grants.gov.

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" also is available on NSF's website.

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

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 (FASED) provide funding for special assistance or equipment to enable persons with disabilities to work on NSF-supported projects. See the NSF Proposal & Award Policies & Procedures Guide Chapter II.E.6 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.

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PRIVACY ACT AND PUBLIC BURDEN STATEMENTS

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