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MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIPS (MSPRF)

Program Solicitation

NSF-01-126

DIRECTORATE FOR MATHEMATICAL AND PHYSICAL SCIENCES
DIVISION OF MATHEMATICAL SCIENCES

FULL PROPOSAL DEADLINE(S) :

October 19, 2001 and the third Friday of October of each subsequent year, until cancelled.

NATIONAL SCIENCE FOUNDATION

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SUMMARY OF PROGRAM REQUIREMENTS

GENERAL INFORMATION

Program Title: MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIPS (MSPRF)

Synopsis of Program: The purpose of the Mathematical Sciences Postdoctoral Research Fellowships (MSPRF) is to permit participants to choose research environments that will have maximal impact on their future scientific development. There will be two options for awardees: Research Fellowship and Research Instructionship. Awards will be made for appropriate research in areas of the mathematical sciences, including applications to other disciplines.

Cognizant Program Officer(s):

- Lloyd Douglas, Program Officer, DMS, 1025, telephone: (703) 292-4862, e-mail: msprf@nsf.gov.
- NSF Mathematical Sciences Postdoctoral Research Fellowships, P. O. Box 6248, Providence, Rhode Island 02940, e-mail: nsfpostdocs@ams.org.

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

- 47.049 --- Mathematical and Physical Sciences

ELIGIBILITY INFORMATION

- **Organization Limit:** The Mathematical Sciences Postdoctoral Research Fellowships are awards to individuals, and applications are submitted directly by the applicant to the NSF. Fellows must affiliate with institutions (e.g., colleges and universities, government and national laboratories and facilities, and privately sponsored nonprofit institutes and museums, and for-profit organizations under special conditions).
- **PI Eligibility Limit:** Applicants must be: U.S. citizens, nationals, or legally admitted permanent resident aliens; may not have held the doctoral degree more than two years as of January 1, of the year of the award; must propose research in the mathematical sciences; may not have previously received a Federal research grant; and may not submit a research plan duplicated in another NSF proposal.
- **Limit on Number of Proposals:** One application per person.

AWARD INFORMATION

- **Anticipated Type of Award:** Standard Grant
- **Estimated Number of Awards:** 30-35

- **Anticipated Funding Amount:** $3.8M, subject to availability of funds

PROPOSAL PREPARATION AND SUBMISSION INSTRUCTIONS

A. Proposal Preparation Instructions

- **Full Proposals:** Deviations From Standard Preparation Guidelines
    - The program announcement/solicitation contains deviations from the standard Grant Proposal Guide (GPG) proposal preparation guidelines. Please see the full program announcement/solicitation for further information.

B. Budgetary Information

- **Cost Sharing Requirements:** Cost Sharing is not required.
- **Indirect Cost (F&A) Limitations:** Fellowships have an institutional allowance of $4,500 in lieu of indirect costs.
- **Other Budgetary Limitations:** Other budgetary limitations apply. Please see the full program announcement/solicitation for further information.

C. Deadline/Target Dates

- **Letters of Intent (*optional*):** None
- **Preliminary Proposals (*optional*):** None
- **Full Proposal Deadline Date(s):**

October 19, 2001 and the third Friday of October of each subsequent year, until cancelled.

D. FastLane Requirements

- **FastLane Submission:** Required
- **FastLane Contact(s):**
    - La Vern Friels, Computer Specialist, Mathematical and Physical Sciences, Mathematical Sciences, 1025, telephone: 703-292-4854, e-mail: dmsfl@nsf.gov.

PROPOSAL REVIEW INFORMATION

- **Merit Review Criteria:** National Science Board approved criteria. Additional merit review considerations apply. Please see the full program announcement/solicitation for further information.

AWARD ADMINISTRATION INFORMATION

- **Award Conditions:** Additional award conditions apply. Please see the program announcement/solicitation for further information.
- **Reporting Requirements:** Additional reporting requirements apply. Please see the full program announcement/solicitation for further information.

I. INTRODUCTION

The Division of Mathematical Sciences (DMS) of the National Science Foundation expects to announce in February the recipients of 30-35 Fellowships for Postdoctoral Research in the Mathematical Sciences, subject to the availability of funds. As researchers in the mathematical sciences expand their interactions with other disciplines, and as the interplay increases between the various areas of mathematics itself, opportunities for postdoctoral research and training become increasingly important. Postdoctoral fellowships are designed to permit awardees to choose research environments that will have maximal impact on their future scientific development. Awards of these fellowships will be made for appropriate research in areas of the mathematical sciences, including applications to other disciplines.

II. PROGRAM DESCRIPTION

The purpose of the Mathematical Sciences Postdoctoral Research Fellowships (MSPRF) is to permit participants to choose research environments that will have maximal impact on their future scientific development.

The MSPRF award provides a stipend support for two nine-month academic years and six summer months, for a total of 24 months' support, within a 48 month period.

The awardee will have two options for the academic years' stipend:

The Research Fellowship option provides full-time support for any eighteen academic-year months in a three-year period, in intervals not shorter than three consecutive months.

The Research Instructorship option provides a combination of full-time and half time support over a period of three academic years, usually one academic year full-time and two academic years half time.

Under either option, not more than two summer months' support may be received in any calendar year.

ARRANGEMENTS FOR FELLOWSHIP INSTITUTION AND SPONSORING SCIENTIST

A. Location of Work

Research and training supported by the MSPRF may be conducted at any appropriate U.S. or foreign host institution. Appropriate institutions include colleges and universities, government and national laboratories and facilities, and privately sponsored nonprofit institutes and museums.

Because one of the objectives of the program is to broaden the perspectives and experiences of the Fellows, careful consideration should be given to the selection of the Sponsoring Scientists and host institutions.

Under certain circumstances it might be desirable for portions of the work to be done at foreign institutions. Approval to do so must be obtained in advance from both the sponsoring senior scientist and the Foundation.

B. The Sponsoring Scientist

The Fellow must affiliate with a host institution during the entire tenure of the fellowship. The applicant is responsible for making prior arrangements with the host institution and Sponsoring Scientist. Regardless of the number of sponsors or locations, the fellowship application requires a single Sponsoring Scientist statement. If more than one sponsor is proposed, one must be named lead sponsor and information from all must be integrated into a single Sponsoring Scientist statement. Likewise, if more than one site is proposed, the Sponsoring Scientist statement must integrate all sponsors and locations in a single statement. An important basis for judging the suitability of the host institution is the degree to which the Sponsoring Scientist statement describes and offers a research environment and mentoring opportunity that could be difficult to achieve without fellowship support.

Before completion of the first year of fellowship tenure, changes in the host institution will be approved only under very unusual circumstances. Since the likely impact of both the senior scientist and the host institution on the professional development of the applicant is an important factor in the evaluation process, the selection of these, especially for the first year of fellowship tenure, will normally be viewed as a commitment on the part of the applicant to fulfill the plan for research as outlined in the application. Securing a position at an institution other than the proposed institution is not considered a "very unusual circumstance."

III. ELIGIBILITY INFORMATION

You are eligible to apply for a National Science Foundation Mathematical Science Postdoctoral Research Fellowship if you meet the following criteria:

(1) You are a citizen, national*, or lawfully admitted permanent resident alien of the United States.

(2) You have not held the doctoral degree more than two years as of January 1, of the year of the award.

(3) Your proposed research must be in the area of mathematical sciences.

(4) You may not have previously received a Federal research grant.

(5) You may not submit a research plan submitted in another NSF proposal.

*The term "nationals of the United States" designates citizens of the United States or native residents of a possession of the United States such as American Samoa. It does not refer to citizens of another country who have applied for U.S. citizenship.

IV. AWARD INFORMATION

NSF expects to make approximately 30-35 Mathematical Sciences Postdoctoral Felllowships per year, from a budget of approximately $3.8 million per year, depending on the quality of submissions and the availability of funds. Fellowship awards are for a total of $108,000. The anticipated date of awards is April in the year following the application deadline.

DURATION/TENURE AND STIPEND/ALLOWANCES

A. Duration and Tenure

The Fellow may choose to exercise the Research Instructionship option either in the original application or any time before beginning tenure; however, the choice of institution and sponsoring senior scientist must be approved in advance by the Foundation.

Each applicant must apply for a total of either two academic years' full-time support, or one academic year full-time and two academic years' half-time support. The tenure period also includes three two-month summer periods, which generally will immediately precede or immediately follow an academic years' support. Tenure must start between June 1 and October 1 of the year of the award. Fellowships may not be renewed.

B. Stipend and Allowances

The total Fellowship amount is $108,000 and consists of three separate types of payments. A monthly stipend of $4,000 for full-time support or $2,000 for half-time support is paid directly to the Fellow as an electronic funds transfer into a personal account at a financial institution. A research allowance of $7,500 is paid as a lump sum to the Fellow in the same manner for expenses directly related to the conduct of the research, such as materials and supplies, subscription fees and recovery costs for databases, travel, and publication expenses. An institutional allowance for a total of $4,500 is paid to the host institution for fringe benefits, including health insurance payments for the Fellow, and for expenses incurred in support of the Fellow, such as space, equipment, and general-purpose supplies. There are no allowances for dependents.

V. PROPOSAL PREPARATION AND SUBMISSION INSTRUCTIONS

A. Proposal Preparation Instructions

Full Proposal:

Proposals submitted in response to this program announcement/solicitation should be prepared and submitted in accordance with the general guidelines contained in the NSF *Grant Proposal Guide* (GPG). The complete text of the GPG is available electronically on the NSF Web Site at: http://www.nsf.gov/cgi-bin/getpub?nsf012. Paper copies of the GPG may be obtained from the NSF Publications Clearinghouse, telephone (703) 292-7827 or by e-mail from pubs@nsf.gov.

Application Preparation Instructions for Fellowships

Mathematical Sciences Research Fellowship Program Application - Must be submitted electronically using the NSF FastLane system. Only one application is permited per person. A complete submission requires coordination between the applicant, the sponsoring scientist(s), and the references and includes all of the following items:

1. An application package completed by the applicant consisting of:

- 3-5 page Project Description;
- Biographical Sketch (limited to 2 pages); and
- Complete official transcripts of academic records

Send official transcripts to:

NSF Mathematical Sciences Postdoctoral Research Fellowships
c/o American Mathematical Society
P. O. Box 6248
Providence, Rhode Island 02940
Street Address :
201 Charles Street
Providence, Rhode Island 02904

Telephone: (401) 455-4105
FAX: (401) 455-4004
E-mail: nsfpostdocs@ams.org
E-mail may be used for inquiries only.

2. Three or four letters of reference (one from the doctoral advisor and others from scientists who know the applicant well). FastLane submission of the reference reports is required. (See below Section on FastLane Requirements)

3. The Sponsoring Scientists' statement. The statement should indicate both expected availability for consultation during the requested tenure period and agreement to work with the Fellow. In particular, this statement should include a discussion of the role that the senior scientist will play in the professional development of the applicant and of the opportunities for training and research at the host institution that will be of particular benefit to the applicant. FastLane submission of the Sponsoring Scientists' statement is required.
(See below Section on FastLane Requirements)

Additional Instructions for the Project Description

The Project Description addresses what the applicant hopes to accomplish during the fellowship period and how it relates to her/his career goals. Applicants are reminded to follow the PDF FastLane Hints and Pointers Document at http://www.fastlane.nsf.gov/a1/pdfcreat.htm.The plan can be submitted as either a PDF file or a word processing document. When printed out, it must be 3 to 5 pages, including all figures, tables, pictures, etc., with 2.5-cm margins and a font no smaller than Courier New 10. The Project Description consists of:

- an introduction or background section;
- a statement of research objectives, methods, and significance;
- an explanation of how the fellowship activities will enhance the applicant's career development; and
- a justification of the choice of Sponsoring Scientists and host institutions.

NOTE: The Temporary Proposal Number is used to provide secure access to the FastLane application for preparing and submitting the reference reports. Access is limited to only those to whom the applicant gives the Temporary Proposal Number. This number links the reference to the application.

FastLane Instructions for Fellowship Applicants

To access FastLane, go to the NSF Web site at http://www.nsf.gov then select "FastLane," or go directly to the FastLane home page at https://www.fastlane.nsf.gov/. Detailed preparation and submission instructions are available by clicking on Postdoctoral Fellowships. Then under Who Are You?, click on Applicant. Select "Mathematical Sciences Postdoctoral Research Fellowships." Click on "How to Apply."

FastLane Instructions for Sponsoring Scientists

The applicant will upload both the Sponsoring Scientist Statement and the Information Sheet into the application. Either mail, e-mail or FAX the documents to the applicant. A copy of the Information Sheet can be found on FastLane https://www.fastlane.nsf.gov under Postdoctoral Fellowships. Under Who Are You? Click on Sponsoring Scientist. Select "Mathematical Sciences Postdoctoral Research Fellowships." Click on "How to Prepare Statement."

FastLane Instructions for Authors of Reference Reports

To prepare and submit the reference reports, the applicant must give the authors the applicant's Temporary Proposal Number and a password. Access FastLane (https://www.fastlane.nsf.gov). Click on Postdoctoral Fellowships hyperlink. Under Who Are You?, click on "Letter of Reference Writer." Click the "GO" button for Letter of Reference Preparation/Submission. Click on the Prepare New Letter of Reference hyperlink. Enter the applicant's Temporary Proposal Number, your last name, and your password, then provide the requested Reference Report.

More detailed information about the FastLane Application Package Preparation and Submission is available on FastLane https://www.fastlane.nsf.gov. Click on Postdoctoral Fellowships. Questions may also be directed by e-mail to dmsfl@nsf.gov or fastlane@nsf.gov.

Proposers are reminded to identify the program solicitation number (NSF-01-126) in the program announcement/solicitation block on the proposal Cover Sheet (NSF Form 1207). Compliance with this requirement is critical to determining the relevant proposal processing guidelines. Failure to submit this information may delay processing.

B. Budgetary Information

Cost sharing is not required in proposals submitted under this Program Solicitation.

Indirect Cost (F&A) Limitations: Fellowships have an institutional allowance of $4,500 in lieu of indirect costs.

Other Budgetary Limitations: The fellowship application does not require an itemized budget.

C. Deadline/Target Dates

Proposals must be submitted by the following date(s):

Full Proposals *by 5:00 PM local time*:

October 19, 2001 and the third Friday of October of each subsequent year, until cancelled.

D. FastLane Requirements

Proposers are required to prepare and submit all proposals for this Program Solicitation through the FastLane system. Detailed instructions for proposal preparation and submission via FastLane are available at: http://www.fastlane.nsf.gov/a1/newstan.htm. For FastLane user support, call 1-800-673-6188 or e-mail fastlane@nsf.gov.

Submission of Signed Cover Sheets. The Authorized Organizational Representative (AOR) must electronically sign the proposal Cover Sheet to submit the required proposal certifications (see Chapter II, Section C of the Grant Proposal Guide for a listing of the certifications). The AOR must provide the required certifications within five working days following the electronic submission of the proposal. Further instructions regarding this process are available on the FastLane website at: http://www.fastlane.nsf.gov.

VI. PROPOSAL REVIEW INFORMATION

A. NSF Proposal Review Process

Reviews of proposals submitted to NSF are solicited from peers with expertise in the substantive area of the proposed research or education project. These reviewers are selected by Program Officers charged with the oversight of the review process. NSF invites the proposer to suggest at the time of submission, the names of appropriate or inappropriate reviewers. Care is taken to ensure that reviewers have no conflicts with the proposer. Special efforts are made to recruit reviewers from non-academic institutions, minority-serving institutions, or adjacent disciplines to that principally addressed in the proposal.

Proposals will be reviewed against the following general review criteria established by the National Science Board. Following each criterion are potential considerations that the reviewer may employ in the evaluation. These are suggestions and not all will apply to any given proposal. Each reviewer will be asked to address only those that are relevant to the proposal and for which he/she is qualified to make judgements.

What is the intellectual merit of the proposed activity?
How important is the proposed activity to advancing knowledge and understanding within its own field or across different fields? How well qualified is the proposer (individual or team) to conduct the project? (If appropriate, the reviewer will comment on the quality of the prior work.) To what extent does the proposed activity suggest and explore creative and original concepts? How well conceived and organized is the proposed activity? Is there sufficient access to resources?

What are the broader impacts of the proposed activity?
How well does the activity advance discovery and understanding while promoting teaching, training, and learning? How well does the proposed activity broaden the participation of underrepresented groups (e.g., gender, ethnicity, disability, geographic, etc.)? To what extent will it enhance the infrastructure for research and education, such as facilities, instrumentation, networks, and partnerships? Will the results be disseminated broadly to enhance scientific and technological understanding? What may be the benefits of the proposed activity to society?

Principal Investigators should address the following elements in their proposal to provide reviewers with the information necessary to respond fully to both of the above-described NSF merit review criteria. NSF staff will give these elements careful consideration in making funding decisions.

Integration of Research and Education
One of the principal strategies in support of NSF's goals is to foster integration of research and education through the programs, projects, and activities it supports at academic and research institutions. These institutions provide abundant opportunities where individuals may concurrently assume responsibilities as researchers, educators, and students and where all can engage in joint efforts that infuse education with the excitement of discovery and enrich research through the diversity of learning perspectives.

Integrating Diversity into NSF Programs, Projects, and Activities
Broadening opportunities and enabling the participation of all citizens -- women and men, underrepresented minorities, and persons with disabilities -- 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.

Additional Review Criteria

Additional Evaluation and Selection of Fellows

The evaluation of applicants will be based on ability and potential as evidenced by past research and letters of recommendation; suitability and availability of the sponsoring senior scientist and other colleagues, as well as other conditions at the proposed host institution such as adequate space, basic services, and supplies; likely impact of the scientific advisor and the host institution on the scientific development of the applicant; scientific quality of the research likely to emerge; and the potential of the applicant's contributions to the Foundation's education and human resource goals.

Applications will be evaluated by a panel of mathematical scientists.

The selection of Fellows will be made by the National Science Foundation, and applicants may expect to be notified by letter on or about February 8th.

A summary rating and accompanying narrative will be completed and signed by each reviewer. In all cases, reviews are treated as confidential documents. Verbatim copies of reviews, excluding the names of the reviewers, are sent to the Principal Investigator/Project Director by the Program Director. In addition, the proposer will receive an explanation of the decision to award or decline funding.

B. Review Protocol and Associated Customer Service Standard

All proposals are carefully reviewed by at least three other persons outside NSF who are experts in the particular field represented by the proposal. Proposals submitted in response to this announcement/solicitation will be reviewed by Panel Review.

Reviewers will be asked to formulate a recommendation to either support or decline each proposal. The Program Officer assigned to manage the proposal's review will consider the advice of reviewers and will formulate a recommendation.

NSF is striving to be able to tell applicants whether their proposals have been declined or recommended for funding within six months for 70 percent of proposals. The time interval begins on the date of receipt. The interval ends when the Division Director accepts the Program Officer's recommendation.

In all cases, 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 and 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 its own risk.

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 Division 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.A. for additional information on the review process.)

B. Award Conditions

An NSF award consists of: (1) the award letter, 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 letter; (4) the applicable award conditions, such as Grant General Conditions (NSF-GC-1)* or Federal Demonstration Partnership (FDP) Terms and Conditions * and (5) any announcement or other NSF issuance that may be incorporated by reference in the award letter. Cooperative agreement awards also are administered in accordance with NSF Cooperative Agreement Terms and Conditions (CA-1). Electronic mail notification is the preferred way to transmit NSF awards to organizations that have electronic mail capabilities and have requested such notification from the Division of Grants and Agreements.

*These documents may be accessed electronically on NSF's Web site at http://www.nsf.gov/home/grants/grants_gac.htm. Paper copies may be obtained from the NSF Publications Clearinghouse, telephone (703) 292-7827 or by e-mail from pubs@nsf.gov.

More comprehensive information on NSF Award Conditions is contained in the NSF *Grant Policy Manual* (GPM) Chapter II, available electronically on the NSF Web site at http://www.nsf.gov/cgi-bin/getpub?gpm. The GPM is also for sale through the Superintendent of Documents, Government Printing Office (GPO), Washington, DC 20402. The telephone number at GPO for subscription information is (202) 512-1800. The GPM may be ordered through the GPO Web site at http://www.gpo.gov.

Special Award Conditions

All awards are made subject to the general provisions in the brochure entitled Information for Mathematical Sciences Postdoctoral Research Fellows, which will be mailed to successful applicants. The information contained in the brochure is summarized below.

All arrangements for affiliation with the chosen fellowship institution(s) are the responsibility of the Fellow.

If the Research Fellowship option is chosen, Fellows will be expected to devote full time to appropriate scientific research during the tenure of the fellowship, and to pursue the program for which the fellowship was awarded. Institutions may supplement fellowship stipends without prior permission from the Foundation provided that such is done in accordance with established institutional policies. Supplementation may be given only if there is no requirement for duties in addition to normal fellowship activities, and may involve teaching only to the extent of conducting or participating in seminars directly related to the fellowship activities and research program.

If the Fellow chooses the Research Instructorship option, Fellows will be expected to devote half time to appropriate scientific research during the tenure of the fellowship. The institution at which the Fellow plans to hold the Instructorship must agree to provide a half-time position with a teaching load not to exceed the equivalent of three teaching hours per semester for the

academic year period during which half-time NSF support is received. This agreement need not be obtained until after the awards are announced; lack of such an agreement at the time of the application will not adversely affect the evaluation.

For either the Research Fellowship or the Research Instructorship option, the host institution's faculty should have competence in the Fellow's research area, and a member of the institution's faculty must agree to serve in the role of sponsoring senior scientist.

Before completion of the first year of fellowship tenure, changes in the host institution will be approved only under very unusual circumstances. Since the likely impact of both the senior scientist and the host institution on the professional development of the applicant is an important factor in the evaluation process, the selection of these, especially for the first year of fellowship tenure, will normally be viewed as a commitment on the part of the applicant to fulfill the plan for research as outlined in the application. Securing a position at an institution other than the proposed institution is not considered a "very unusual circumstance."

Under certain circumstances it might be desirable for portions of the work to be done at foreign institutions. Approval to do so must be obtained in advance from both the sponsoring senior scientist and the Foundation.

In exceptional circumstances, applications for less than full-time postdoctoral support, with reduced stipends, will be considered. Requests for such must be made in the original application, and applicants must agree to accept remuneration from no other source while on part-time tenure. Major changes in the plan of scientific research, in tenure, or in fellowship institution require prior Foundation approval. After an award is made, the dollar amount and length of tenure are not subject to increase except as indicated above.

In the context of the brochure's guidelines, funds that the institution has obtained from external (including federal) sources may be considered as institutional funds. NSF awards may be used for supplementation of stipends in an amount not to exceed $1,000 per year.

C. Reporting Requirements

For all multi-year grants (including both standard and continuing grants), the PI must submit an annual project report to the cognizant Program Officer at least 90 days before the end of the current budget period.

Within 90 days after termination of the fellowship, the Fellow is required to submit a termination certificate.

Within 90 days after the expiration of an award, the PI also is required to submit a final project report. Approximately 30 days before expiration, NSF will send a notice to remind the PI of the requirement to file the final project report. Failure to provide final technical reports delays NSF review and processing of pending proposals for that PI. PIs should examine the formats of the required reports in advance to assure availability of required data.

NSF has implemented an electronic project reporting system, available through FastLane. This system permits electronic submission and updating of project reports, including information on

project participants (individual and organizational), activities and findings, publications, and other specific products and contributions. PIs will not be required to re-enter information previously provided, either with a proposal or in earlier updates using the electronic system.

VIII. CONTACTS FOR ADDITIONAL INFORMATION

General inquiries regarding MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIPS should be made to:

- Lloyd Douglas, Program Officer, DMS, 1025, telephone: (703) 292-4862, e-mail: msprf@nsf.gov.
- NSF Mathematical Sciences Postdoctoral Research Fellowships, P. O. Box 6248, Providence, Rhode Island 02940, e-mail: nsfpostdocs@ams.org.

For questions related to the use of FastLane, contact:

- La Vern Friels, Computer Specialist, Mathematical and Physical Sciences, Mathematical Sciences, 1025, telephone: 703-292-4854, e-mail: dmsfl@nsf.gov.

IX. OTHER PROGRAMS OF INTEREST

The NSF *Guide to Programs* is a compilation of funding for research and education in science, mathematics, and engineering. The NSF *Guide to Programs* is available electronically at http://www.nsf.gov/cgi-bin/getpub?gp. General descriptions of NSF programs, research areas, and eligibility information for proposal submission are provided in each chapter.

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 web site at http://www.nsf.gov/home/ebulletin, and in individual program announcements/solicitations. Subscribers can also sign up for NSF's Custom News Service (http://www.nsf.gov/home/cns/start.htm) to be notified of new funding opportunities that become available.

NSF-NATO Postdoctoral Fellowships in Science and Engineering

In order to promote the progress of science and closer collaboration among the scientists of various nations, the North Atlantic Treaty Organization offers the NSF-NATO Postdoctoral Fellowships Program. NSF administers the program at the request of the U.S. Department of State. Awards are offered for further research and/or study in the sciences or engineering at institutions located in NATO countries other than the United States.

For further details contact:

NSF-NATO POSTDOCTORAL FELLOWSHIPS IN SCIENCE AND ENGINEERING (NSF 00-145
Division of Graduate Education and Research Development
Room 907
National Science Foundation
4201 Wilson Boulevard
Arlington, Virginia 22230

Telephone: (703) 292-8697
http://www.nsf.gov/cgi-bin/getpub?nsf00145
CISE Postdoctoral Research Associates in Experimental Computer Science (NSF 97-169)

The objective of these Associateship awards is to increase expertise in experimental computer science and engineering by providing opportunities to work in established laboratories performing experimental research in computer science and engineering. By these awards, recent Ph.D.s broaden their knowledge and experience and prepare for significant research careers on the frontiers of experimental computer science.

If you would like additional information relating to this program, please contact the Program Director for the Postdoctoral Program at amaddox@nsf.gov.

http://www.nsf.gov/cgi-bin/getpub?nsf97169

East Asia and Pacific (EAP) Program

The Japan and Korea Program can be categorized into activities which support graduate students, postdoctoral researchers, and senior researchers, and which integrate participation of researchers at these various levels.

For further details contact:

East Asia and Pacific (EAP) Program
Division of International Programs
Room 935
National Science Foundation
4201 Wilson Boulevard
Arlington, Virginia 22230

Telephone: (703) 292-8704
http://www.nsf.gov/sbe/int/eap/start.htm

Opportunities in the Division of Mathematical Sciences

The Infrastructure Program of the Division of Mathematical Sciences supports a number of other postdoctoral opportunities through a variety of mechanisms. For example: the University-Industry Cooperative Research Programs in the Mathematical Sciences (brochure NSF 00-121, http://www.nsf.gov/cgi-bin/getpub?nsf00121) includes research opportunities with faculty mentors and industrial sponsors, for postdoctoral fellows. For more information about these opportunities contact:

Infrastructure Program
Division of Mathematical Sciences
Room 1025
National Science Foundation
4201 Wilson Boulevard
Arlington, Virginia 22230

Telephone: (703) 292-8870

ABOUT THE NATIONAL SCIENCE FOUNDATION

The National Science Foundation (NSF) funds research and education in most fields of science and engineering. Awardees are wholly responsible for conducting their project activities and preparing the results for publication. Thus, the Foundation does not assume responsibility for such findings or their interpretation.

NSF welcomes proposals from all qualified scientists, engineers and educators. The Foundation strongly encourages women, minorities and persons with disabilities to compete fully in its programs. In accordance with Federal statutes, regulations and NSF policies, no person on grounds of race, color, age, sex, national origin or disability shall be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving financial assistance from NSF (unless otherwise specified in the eligibility requirements for a particular program).

Facilitation Awards for Scientists and Engineers with Disabilities (FASED) provide funding for special assistance or equipment to enable persons with disabilities (investigators and other staff, including student research assistants) to work on NSF-supported projects. See the program announcement/solicitation for further information.

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 or (800) 281-8749, FIRS at 1-800-877-8339.

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