

Professional Opportunities for Women in Research and Education POWRE

Program Announcement

Proposal and Supplement Receipt Deadline FY97: *July 1, 1997*

Subsequent years:

Proposal Receipt Deadline: *December 9, 1997, 1998, 1999*

Supplement Receipt Deadline: *February 17, 1998, 1999, 2000*



NATIONAL SCIENCE FOUNDATION

Instructions for Submission of Cover Sheets of POWRE Proposals using NSF FastLane

You are encouraged to submit your POWRE proposal cover sheet to NSF using FastLane. If you are submitting a POWRE Supplement Request to an existing award, DO NOT submit a cover page via FastLane. To access FastLane, go to the NSF Web Site at <http://www.nsf.gov>, then select “FastLane” or go directly to FastLane at <http://www.fastlane.nsf.gov>

Instructions for the Principal Investigator (PI):

- Begin your FastLane POWRE proposal cover sheet and budget information as early as possible.
- Contact your Sponsored Research Office (SRO) for a PIN number to gain access to the FastLane “Proposal Preparation” application.
- If you have not submitted a proposal to NSF in the past, you must contact your SRO to be added to the NSF PI database. Please do this as soon as you decide to prepare a POWRE proposal.
- As early as possible, enter your cover sheet and budget information using the FastLane “Proposal Preparation” application. In the field labeled “Program Announcement,” type in “NSF 97-91” exactly as shown, with no additional spaces or characters.
- Click on the “Allow SRO Access” button. Allow time for your SRO to approve, copy and mail the proposal to meet the deadline. Contact your SRO to inform them of the proposal ID.
- If you save your forms as a “template,” you can re-use the data on the forms in future proposals. (Once a proposal has been submitted, you can only view it.)
- Print the cover sheet (and budget, if desired) and insert into the printed copy of the proposal.

Instructions for the Sponsored Research Office:

- Print the second page of the cover sheet in time to obtain the required institutional signatures.
- Before assembling the proposal for copying, submit the cover sheet to NSF via FastLane using the “Submit Proposal” function within the “Institutional Management of FastLane” application. This will generate a proposal number. Allow at least a business day for this process.
- Print a copy of the cover sheet; it will have the proposal number on it.
- Substitute the first page of the cover sheet for the one produced by the PI.
- Make copies of the proposal and submit to NSF according to usual procedures for a paper proposal.
- *The hard copies of the proposal MUST be received at NSF by 5 p.m. Eastern time, July 1, 1997, in order to be eligible.*

Please direct your questions concerning FastLane to fastlane@nsf.gov.

The National Science Foundation promotes and advances scientific progress in the United States by competitively awarding grants for research and education in the sciences, mathematics and engineering.

To get the latest information about program deadlines, to download copies of NSF publications, and to access abstracts of awards, visit the NSF Web Site at:

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NSF Information Center: (703) 306-1234; TDD (for the hearing-impaired): (703)306-0090
To locate NSF Employees: (703) 306-1234
To order publications or forms: e-mail pubs@nsf.gov or (703)306-1130

POWRE

Professional Opportunities for Women in Research and Education

INTRODUCTION

The National Science Foundation's mandate to ensure the vitality of the nation's scientific and engineering enterprise requires a focus on the quality, distribution, and effectiveness of the human resource base in science and engineering, including full utilization of all potentially interested and qualified citizens. Because women are underrepresented in the science and engineering workforce, the Foundation supports efforts aimed at increasing the number of women as full participants in the science and engineering mainstream of the nation's workplace. Of special interest in this announcement is their representation in education and research leadership.

The Professional Opportunities for Women in Research and Education (POWRE) program contributes to this goal by supporting activities designed to promote the development of scholarly and institutional leaders in research and education. POWRE is a Foundation-wide program with activities designed to increase women's prominence in science and engineering and to enhance their professional advancement by providing women with funding opportunities not ordinarily available through regular research and education grants. The former Visiting Professorships for Women, Faculty Awards for Women, Research Planning Grants for Women, and Career Advancement Awards for Women programs have been integrated and incorporated into the POWRE program.

The Foundation is particularly interested in increasing the participation of minority women, women with disabilities, and women whose careers have been interrupted. Proposals from members of these groups are especially encouraged.

OBJECTIVES AND TARGET AUDIENCE

The NSF POWRE program addresses the need to develop full use of the nation's human resources for science and engineering. The objectives of the program are:

- To provide opportunities for further career advancement, professional growth, and increased prominence of women in engineering and in the disciplines of science supported by NSF; and
- To encourage more women to pursue careers in science and engineering by providing greater visibility for women scientists and engineers in academic institutions and in industry.

The POWRE program is targeted at women scientists and engineers who currently (1) hold non-tenured academic positions or industrial positions, (2) hold academic tenured or

tenure-track positions, or (3) plan to enter or re-enter academia.

PROGRAM DESCRIPTION

The POWRE program allows flexibility in the choice of activities designed to provide academic and professional opportunities for women in science and engineering. The following categories of activities will be supported:

- Visiting Professor - supports activities at a host academic institution for the conduct of research projects and/or for engaging in innovative educational activities that have promise beyond the home institution's traditional education approaches.
- Visiting Researcher - supports activities for academically employed women to conduct research and development projects at an industrial or non-Federal organization.
- Research/Educational Enhancement - supports opportunities to enhance the applicant's research and/or educational activities at the home institution or at an external site through: (1) access and utilization of new and/or special facilities, skills, or methodologies; or (2) exploratory or pilot work to determine feasibility of a new line of inquiry or educational activity.
- Supplements - support additional research and/or education activities for women principal investigators or co-principal investigators under existing NSF grants to (1) take advantage of a special opportunity (e.g., pursuit of a promising new direction in research or education, an international collaboration, an innovative idea for integrating research and education), or (2) provide extra support at a critical career stage (e.g., after major administrative demands, after a career interruption to accommodate family responsibilities or relocation requirements). Potential supplement applicants should contact the cognizant program officer, and directorate-specific information may be available on the home page of the appropriate NSF directorate/office.

Only single-investigator proposals are appropriate. In the case of supplement requests from female principal or co-principal investigators on an existing multiple-investigator award, any supplement request must be submitted by a single individual. POWRE proposals to support Visiting Professor, Visiting Researcher, or Research/Educational Enhancement

activities that are submitted with co-investigators will be returned without review.

Consideration will be given to international activities to forge linkages between foreign and U.S. scientists and engineers, to provide access to unique research equipment and facilities, to plan joint seminars and workshops, or to address issues that can benefit from international comparisons. International experiences and collaborations are encouraged within each of the above categories where the international experience is well-justified and necessary to achieve the scope of the project. Awards will be made only to U. S. institutions. POWRE applicants wishing to pursue international activities should consult *International Opportunities for Scientists and Engineers* (NSF 96-14).

ELIGIBILITY

Eligibility is limited to women scientists and engineers who:

- hold a doctorate at the time of submission in a field of research supported by NSF (in exceptional circumstances, experience equivalent to the Ph.D. degree will be accepted);
- are a U.S. citizen, national, or permanent resident at the time of proposal submission; and,
- hold, or have held, a faculty or research-related position in a U.S. college, university, or other non-profit institution. Alternatively, applicants for the Visiting Professor position may be currently employed in industry, or be on the staff of a scientific or engineering professional organization.

Additional eligibility requirements for POWRE supplement requests may have been established in specific directorates. Applicants for POWRE supplements should consult the cognizant program officer, and specific information may be available on the home page of the appropriate NSF directorate/office.

Women who wish to enter or re-enter academia, who wish to advance to tenure-track and tenured academic positions, or who aspire to leadership positions in academic environments are encouraged to apply to the POWRE program. Women whose careers have been interrupted and intend to resume an academic career are encouraged to apply in either the Visiting Professor or Research/Educational Enhancement categories of the POWRE program.

AWARD SIZE AND DURATION

NSF funding for the POWRE program in FY1997 will be approximately \$6.0 million. Subject to availability of funds, the anticipated budget for each of FY 1998, FY 1999, and FY 2000 is \$11.0-\$12.0 million.

Awards for the Visiting Professor, Visiting Researcher, and Research/Educational Enhancement categories of the POWRE program will be made for up to 18 months duration and for up to the following maximum budget amounts (which include both direct and indirect costs):

Visiting Professor - up to \$150,000

Visiting Researcher - up to \$150,000

Research/Educational Enhancement - up to \$75,000

The award sizes for POWRE proposals and supplement requests will vary based on the activities proposed and the priorities of the NSF disciplinary directorates. Potential proposers should consult the appropriate member of the POWRE Coordinating Committee listed at the end of this announcement, or the cognizant program officer. Specific information may also be available on the home page of the appropriate NSF directorate/office.

Potential proposers of POWRE supplement requests should contact the program officer who administers the existing grant. Additional information regarding POWRE supplements may be available on the home page of the appropriate NSF directorate/office.

SUBMISSION DEADLINE

For FY 1997, proposals and supplement requests **must be received by NSF no later than July 1, 1997**. In FY 1998 and beyond, POWRE proposals must be received by NSF no later than December 9; requests for POWRE supplemental funding must be received by February 17, but may be submitted earlier. It is the applicant's responsibility to take whatever actions are necessary to meet these deadlines. The official application must have the original signature of the applicant. For those applicants currently employed, the application must also include the signature of the home institution's authorized organizational representative.

PROPOSAL AND SUPPLEMENT REQUEST REVIEW

POWRE proposals and supplement requests will be reviewed by the relevant NSF disciplinary programs in accordance with the Foundation's merit review procedures. See the *Grant Proposal Guide (GPG)* NSF 95-27, available on the NSF home page at URL: <http://www.nsf.gov/bfa/cpo/gpg/>:

- (1) Research performance competence - This criterion relates to the capability of the investigator(s), the technical soundness of the proposed approach, and the adequacy of the institutional resources available.
- (2) Intrinsic merit of the research - This criterion is used to assess the likelihood that the research will lead to new discoveries or fundamental advances within its field of science or engineering or have substantial impact on progress in that field or in other scientific and engineering fields.
- (3) Utility or relevance of the research - This criterion is used to assess the likelihood that the research can contribute to the achievement of a goal that is extrinsic or in addition to that of the research field itself and thereby serve as the basis for new or improved technology or assist in the solution of societal problems.

- (4) Effect of the research on the infrastructure of science and engineering - This criterion relates to the potential of the proposed research to contribute to better understanding or improvement of the quality, distribution, or effectiveness of the Nation's scientific and engineering research, education, and workforce base.

Additional criteria to be used to evaluate POWRE proposals and supplement requests are:

- Applicant's career objectives and relevance of the proposed activities to these objectives.
- Impact of a POWRE award on the applicant's academic advancement and/or leadership roles.
- The match between the proposed activity and the research and/or educational environment and facilities at the host institution (for those activities involving a host organization).

Final funding decisions will be made by the National Science Foundation. In making selections, such secondary criteria as distribution among disciplines, racial and ethnic affiliation, geographic areas and types of institutions may be considered.

PROPOSAL AND SUPPLEMENT REQUEST PREPARATION

The NSF *Grant Proposal Guide (GPG)* NSF 95-27, provides a detailed description of proposal preparation, review criteria, and proposal processing. All proposals should be prepared in accordance with the *GPG*, except as modified in this brochure. The forms specified below are available in *GPG*, which may be obtained without charge from:

Forms and Publications Unit, Room P-15
National Science Foundation
4201 Wilson Blvd.
Arlington, VA 22230
Telephone (703) 306-1130, or via e-mail from
pubs@nsf.gov (Internet).

In your request, be sure to include the publication number and title, your name, and a complete mailing address. The Grant Proposal Forms Kit is available on WWW at <http://www.nsf.gov/bfa/cpo/gpg/fkit.htm>.

POWRE Proposals

POWRE proposals must conform to NSF proposal submission requirements. See *GPG* and the instructions below for more details. Fifteen copies of the proposal, including an original signed copy, should be submitted to NSF. Proposals should be stapled in the upper left-hand corner, but otherwise unbound, with pages numbered at the bottom and 2.5 cm margins at the top, bottom and on each side, in type no smaller than 10 point. The original signed copy should be printed only on one side of each sheet.

Additional copies may be printed on both sides. A proposal must include the following items:

- Information About Principal Investigators (NSF Form 1225). This form should be clipped to the cover sheet of the original signature copy.
- NSF Cover Sheet (NSF Form 1207: page 1, all copies; pages 1 and 2, original copy only). In the block for information on the NSF organizational unit to consider the proposal, indicate the appropriate directorate and division abbreviation and the program most closely associated with the proposed activity. In the block "Program Announcement/Solicitation No./Closing Date," use "POWRE Program/NSF 97-91 /July 1, 1997. (Use appropriate deadlines in FY 1998 and beyond). No co-investigator can be listed. The title should be descriptive of the planned activities. When submitting a POWRE supplement request, begin the title with the word "SUPPLEMENT:"
- Letters of Support. For those applicants currently employed, the applicant is encouraged to submit a letter of support from the department chair or equivalent of her home institution, describing the expected impact of the POWRE activities on her career and professional standing. Applicants proposing a Visiting Professor or Visiting Researcher position are also required to submit a letter of support from the host organization describing the research and/or educational environment and facilities that will be made available to her.
- Project Summary (NSF Form 1358), not more than one page in length.
- Table of Contents Sheet, with page numbers indicated (NSF Form 1359).
- Project Description and Results from Prior NSF Support (NSF Form 1360). This section consists of (1) a description of results from prior NSF support, if applicable; and (2) a description of the planned POWRE activities. Parts (1) and (2) must not exceed a total of 15 pages, including any graphical or tabular materials.
- Selection of Host Institution (if applicable), limited to one page. The applicant should describe her reasons for selecting the institution including the availability of professional colleagues, facilities and/or equipment.
- References Cited (NSF Form 1361).
- Biographical Sketch (NSF Form 1362), limited to two pages.
- Budget — NSF Form 1030 (cumulative and annual budgets, including subcontract budgets, if any, and

up to three pages of budget justification). Funds may be requested to defray salary (in most cases based on home institution salary), travel, relocation costs, if applicable (normally not to exceed \$3,000), and research support. Funds may be requested for salaries and wages for research assistants or support personnel, but not for faculty collaborators. Summer salary for faculty members on academic-year appointments will not be funded for more than two-ninths of their regular academic-year salary. This total includes summer salary received from all NSF-funded grants. Exceptions to this limitation are permitted only in unusual cases, which must be fully justified in the proposal. Institutionally negotiated indirect-cost rates as normally calculated apply to POWRE awards; the maximum funding amounts stated above include both direct and indirect costs.

- Current and Pending Support (NSF Form 1239).
- Facilities, Equipment, and Other Resources (NSF Form 1363).
- Cost-Sharing: NSF encourages organizations responding to this announcement to contribute to the cost of the project supported by NSF. Applicants for the Visiting Researcher activity are strongly encouraged to seek cost-sharing from the host industrial or non-Federal organization. The amount of cost-sharing should be indicated on line M of the Summary Proposal Budget, NSF Form 1030.

Supplementary Documentation and Special Information: Standard items (including letters documenting collaborations, arrangements, and commitments) may be included if appropriate. Other information useful to evaluators, such as a description of unique circumstances or qualifications not reflected in applicant's biographical sketch, may be included but the length of such information is limited to two pages.

POWRE proposals should be checked carefully for completeness to ensure that reviewers have all essential information.

POWRE Supplement Requests

POWRE supplement applicants are not required to submit all of the items listed above. However, they must include: a Cover Sheet, Letter of Support, Project Summary, Project Description, Budget, Current and Pending Support, and Facilities, Equipment, and Other Resources. The Project Description may be up to five pages in length, and should describe planned POWRE activities and their relationship to the grant being supplemented. When submitting a POWRE supplement request, begin the title with the word "SUPPLEMENT:"

POWRE supplement requests should be checked carefully for completeness to ensure that reviewers have all essential information.

PROPOSAL SUBMISSION

Fifteen (15) copies of each proposal, including one copy with original signatures, should be sent to:

National Science Foundation PPU
Announcement No: NSF 97-91, POWRE Program
4201 Wilson Blvd., Room P60
Arlington, VA 22230

Principal investigators are also encouraged to submit the cover page for their proposal directly to NSF via FastLane. Instructions for such submission are included in this document. For FY 1997, proposals received by NSF later than July 1, 1997, will be returned without review.

SUPPLEMENT REQUEST SUBMISSION

Eight (8) copies, including one copy with original signatures, of the supplement request should be submitted. In FY 1997 ONLY, the request should be sent to:

National Science Foundation
Room 648
Announcement No: NSF 97-91, POWRE Program
4201 Wilson Blvd.
Arlington, VA 22230

In FY 1998 and beyond, supplement requests should be submitted directly to the appropriate disciplinary program handling the award to be supplemented, by no later than February 17. Requests can be submitted earlier.

Principal investigators should NOT use FastLane to submit a POWRE supplement request.

For FY 1997, supplement requests received by NSF later than July 1, 1997, will be returned without review.

GRANT ADMINISTRATION

Grants awarded as a result of this announcement will be administered in accordance with the terms and conditions of NSF GC-1 (10/95), "Grant General Conditions," FDP-III, "Federal Demonstration Partnership (FDP) General Terms and Conditions" depending on the grantee institution, or "Cooperative Agreement General Terms and Conditions". Copies of these documents are available from the NSF Forms and Publications Unit, phone (703) 306-1130, or via e-mail pubs@nsf.gov. More comprehensive information is contained in the NSF *Grant Policy Manual* (7/95) NSF 95-26, available on the NSF home page at <http://www.nsf.gov/bfa/cpo/gpm95/start.htm>, or for sale through the Superintendent of Documents, Government Printing Office, Washington, DC 20402.

Upon completion of the project, a Final Project Report (NSF Form 98A) is required (see *GPG*, Appendix E, page 33). Applicants should review this form prior to proposal submission so that appropriate tracking mechanisms are included in the proposal plan to ensure that complete information will be available at the conclusion of the project.

INQUIRIES

Questions about the POWRE program may be addressed to the following members of the NSF POWRE Coordinating Committee, given with their directorate/office affiliation:

BIOLOGICAL SCIENCES, Stacia Sower, (703) 306-1481, biopowre@nsf.gov
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING, Caroline Wardle, (703) 306-1980, cwardle@nsf.gov
EDUCATION AND HUMAN RESOURCES, Margrete Klein, (703) 306-1649, mklein@nsf.gov
ENGINEERING, Priscilla Nelson, (703) 306-1361, pnelson@nsf.gov and Raul Miranda, (703) 306-1371, rmiranda@nsf.gov
GEOSCIENCES, Jewel Prendeville, (703) 306-1521, jprendev@nsf.gov
MATHEMATICAL AND PHYSICAL SCIENCES, Denise Caldwell, (703) 306-1807, dcaldwel@nsf.gov
POLAR PROGRAMS, Julie Palais, (703) 306-1033, jpalais@nsf.gov
SOCIAL, BEHAVIORAL AND ECONOMIC SCIENCES, Bonney Sheahan, (703) 306-1733, bsheahan@nsf.gov

Alternatively, program-related questions may be directed to the NSF program officer who works in the specific discipline. A directory of Foundation programs providing scientific research support may be found in *GPG*, or in the NSF brochure entitled *Guide to Programs* (NSF 97-30).

As warranted, NSF will assemble a listing of Frequently Asked Questions (FAQ) relating to this announcement. Any FAQ prepared will be accessible through the NSF home page (<http://www.nsf.gov>).

Both *GPG* and *Guide to Programs* are available in the research offices of most institutions, or without charge from NSF's Forms and Publications Unit (see inside back cover). Publications may also be ordered electronically at pubs@nsf.gov (Internet) and are available on the NSF home page at URL: <http://www.nsf.gov>. In your request, include the NSF publication number and title, your name, and a complete mailing address.

OTHER INFORMATION

The Foundation provides awards for research and education in the sciences and engineering. The awardee is wholly responsible for the conduct of such research and preparation of the results for publication. The Foundation, therefore, does not assume responsibility for the research findings or their interpretation.

The Foundation welcomes proposals from all qualified scientists and engineers and strongly encourages women,

minorities, and persons with disabilities to compete fully in any of the research and education related programs described here. 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 subject to discrimination under any program or activity receiving financial assistance from the National Science Foundation.

Facilitation Awards for Scientists and Engineers with Disabilities (FASSED) provide funding for special assistance or equipment to enable persons with disabilities (investigators and other staff, including student research assistants) to work on NSF projects. See the program announcement or contact the program coordinator at (703) 306-1636.

Privacy Act and Public Burden. The information requested on proposal forms 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 proposals and may be disclosed to qualified reviewers and staff assistants as part of the review process; to applicant institutions/grantees; to provide or obtain data regarding the application review process, award decisions, or the administration of awards; to government contractors, experts, volunteers, and researchers as necessary to complete assigned work; and to other government agencies in order to coordinate programs. See Systems of Records, NSF 50, Principal Investigators/Proposal File and Associated Records, and NSF-51, 60 Federal Register 4449 (January 23, 1995). Reviewer/Proposal File and Associated Records, 59 Federal Register 8031 (February 17, 1994). Submission of the information is voluntary. Failure to provide full and complete information, however, may reduce the possibility of your receiving an award.

Public reporting burden for this collection of information is estimated to average 120 hours per response, including the time for reviewing instructions. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Herman G. Fleming, Reports Clearance Officer, Contracts, Policy, and Oversight, National Science Foundation, 4201 Wilson Boulevard, Arlington, VA 22230.

The National Science Foundation has TDD (Telephonic Device for the Deaf) capability, which enables individuals with hearing impairment to communicate with the Foundation about NSF programs, employment, or general information. To access NSF TDD, dial (703) 306-0090; for Federal Information Relay Service (FIRS), 1-800-877-8339.

This program is described in the Catalog of Federal Domestic Assistance categories 47.041 ENG, 47.049 MPS, 47.050 GEO, 47.070 CISE, 47.074 BIO, 47.075 SBE, 47.076 EHR, and 47.078 OPP.

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ARLINGTON, VA 22230

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RETURN THIS COVER SHEET TO ROOM P35 IF YOU DO NOT WISH TO RECEIVE THIS MATERIAL , OR IF CHANGE OF ADDRESS IS NEEDED , INDICATE CHANGE INCLUDING ZIP CODE ON THE LABEL (DO NOT REMOVE LABEL).

OMB No. 3145-0058

P.T. 22, 34; FF

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1008000, 1009000, 1013000, 1014000, 0505000, 0600000,
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