

UNIDATA EQUIPMENT GRANTS

Program Solicitation

NSF 00-51

DIRECTORATE FOR GEOSCIENCES
DIVISION OF ATMOSPHERIC SCIENCES

DEADLINE DATE: MAY 8, 2000



NATIONAL SCIENCE FOUNDATION



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SUMMARY OF PROGRAM REQUIREMENTS

GENERAL INFORMATION

Program Name: Unidata Equipment Grants

Short Description/Synopsis of Program:

This initiative is aimed at providing computer equipment to the university community for upgrading obsolete equipment, enhancing computer capabilities, and drawing new institutions into the Unidata community. The Unidata Program Center (UPC) located in Boulder, Colorado offers software and services that enable universities to acquire and use atmospheric and related data on their own computers, often in real time. The UPC's software and services are available to any US college or university at no cost. Member institutions provide their own computers, network connections, human resources, and other requirements for participation, including access fees for certain data.

Cognizant Program Officer(s): Dr. Clifford A. Jacobs, Program Officer, Room 775, Division of Atmospheric Sciences, telephone 703. 306.1521, e-mail: cjacobs@nsf.gov.

Applicable Catalog of Federal Domestic Assistance (CFDA) No.: 47.050 — Geosciences

ELIGIBILITY INFORMATION

- ◆ Limitation on the categories of organizations that are eligible to submit proposals:

Proposals may be submitted by academic institutions in support of individual investigators or small groups.

- ◆ PI eligibility limitations: **None**
- ◆ Limitation on the number of proposals that may be submitted by an organization:

A Principal Investigator may submit only one proposal and he/she may only collaborate in one other proposal as a co-Investigator.

AWARD INFORMATION

- ◆ Type of award anticipated: **Standard Grant**
- ◆ Number of awards anticipated in FY 00: **5-10 awards**
- ◆ Amount of funds available: **Approximately \$100,000 will be available for this initiative in FY 2000**
- ◆ Anticipated date of award: **October 2000**

PROPOSAL PREPARATION & SUBMISSION INSTRUCTIONS

- ◆ **Proposal Preparation Instructions**
 - Letter of Intent requirements: **None**
 - Preproposal requirements: **None**
 - Proposal preparation instructions: **Standard NSF Grant Proposal Guide instructions**
 - Supplemental proposal preparation instructions: **None**
 - Deviations from standard (GPG) proposal preparation instructions: **None**
- ◆ **Budgetary Information**
 - Cost sharing/matching requirements:
Cost sharing is not required.
 - Indirect cost (F&A) limitations: **None**
 - Other budgetary limitations:
Award amounts will range from \$5,000 to \$25,000 for one year for proposals submitted in response to this announcement.
- ◆ **FastLane Requirements**
 - FastLane proposal preparation requirements: **FastLane use optional**

- FastLane point of contact: Ruth Joel, 703.306.1528, rjoel@nsf.gov.,
National Science Foundation, Division of Atmospheric Sciences, Room
775, 4201 Wilson Boulevard, Arlington, Virginia 22230

◆ **Deadline: May 8, 2000**

- Full Proposal Deadline **5:00 PM, ET, May 8, 2000 (paper)**
5:00 PM local time, May 8, 2000 (FastLane)

PROPOSAL REVIEW INFORMATION

- ◆ Merit Review Criteria: **Standard National Science Board approved criteria and additional criteria described in Section A under *Proposal Review Information*.**

AWARD ADMINISTRATION INFORMATION

- ◆ Grant Award Conditions: **GC-1 or FDP III**
- ◆ Special grant conditions anticipated: **None anticipated**

Special reporting requirements anticipated: **None**

Unidata Equipment Grants

I. PROGRAM DESCRIPTION

The Division of Atmospheric Sciences (ATM) of the National Science Foundation (NSF) will accept equipment proposals for Unidata-supported systems from academic institutions engaged in teaching and research in the atmospheric and related sciences. (System definition assistance is available by contacting the Unidata Program Center [UPC] at support@unidata.ucar.edu.) Small schools and schools that have not previously submitted proposals are encouraged to apply. It is NSF's intent to assist those institutions that presently do not have interactive meteorological computer capability to participate in the Unidata Program. In addition, NSF will accept proposals for purchasing hardware and software to assist institutions whose Unidata related computing equipment is becoming obsolete. NSF will also accept proposals for purchasing hardware and software that will augment an institution's participation in the Internet Data Delivery (IDD) system as a source site or data-archiving site. Proposers are encouraged to review background information on the Unidata equipment grant program provided at [<http://www.unidata.ucar.edu/community/proposals/Indes.html>]. **The deadline for submitting proposals to be considered for funding in FY 2000 is May 8, 2000.**

II. ELIGIBILITY INFORMATION

Proposals may be submitted by academic institutions in support of individual investigators or small groups. A Principal Investigator may submit only one proposal and he/she may collaborate in one other proposal as a co-Investigator. Group and collaborative proposals involving more than one institution must be submitted as a single administrative package from one of the institutions involved. Due to the limited availability of funds, prospective applicants are strongly urged to contact [one of] the program officer[s] listed at the end of this document for guidance (see contacts for additional information).

III. AWARD INFORMATION

Under this announcement, proposals may be submitted for any funding amount up to \$25,000 for one year. Awards will be made at levels ranging between \$5,000 - \$25,000 depending upon the availability of funds. NSF expects to fund approximately 5 to 10 standard one year research awards depending on the quality of submissions and the availability of funds. Approximately \$100,000 will be available for these proposals in FY 2000. Anticipated date of awards: October 2000.

IV. PROPOSAL PREPARATION & SUBMISSION INSTRUCTIONS

A. Proposal Preparation Instructions.

Proposals submitted in response to this program solicitation should be prepared and submitted in accordance with the general guidelines contained in the *Grant Proposal Guide* (GPG), NSF 00-2. The complete text of the GPG (including electronic forms) is available electronically on the NSF Web site at: <<http://www.nsf.gov/pubs/2000/nsf002/start.htm>>. Paper copies of the GPG may be obtained from the NSF Publications Clearinghouse, telephone 301.947.2722 or by e-mail from pubs@nsf.gov.

Proposers are reminded to identify the program solicitation number (NSF 00-51) in the program solicitation block on the NSF Form 1207, "*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.

B. Proposal Due Dates.

The proposal can be submitted via FastLane no later than 5:00 PM local time or received by mail no later than 5:00 PM, ET, May 8, 2000.

A proposal may not be processed until the complete proposal (including the signed Cover Sheet) has been received by NSF. A proposal is considered complete when the proposal, including the Project Description, has been submitted to NSF. The receipt date will be the date the sponsored projects office transmits the proposal to NSF.

Submission of Signed Cover Sheets. The signed copy of the proposal Cover Sheet (NSF Form 1207) must be postmarked (or contain a legible proof of mailing date assigned by the carrier) within five working days following proposal submission and be forwarded to the following address:

NSF 00-51
National Science Foundation
DIS-FastLane Cover Sheet
4201 Wilson Blvd.
Arlington, VA 22230

C. FastLane Requirements.

Proposers are encouraged 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: <https://www.fastlane.nsf.gov/al/newstan.htm>.

Submission of Signed Cover Sheets. The signed copy of the proposal Cover Sheet (NSF Form 1207) must be postmarked (or contain a legible proof of mailing date assigned by the carrier) within five days following proposal submission in accordance with the FastLane proposal preparation and submission instructions referenced above.

V. 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 merit 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 judgments.

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 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?

PIs should address the following elements in their proposal to provide reviewers with the information necessary to respond fully to both NSF merit review criteria. NSF staff will give these factors 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 learner 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.

Also, the following criteria will be used to evaluate the proposals:

- **Contribution to Research.** Potential that the proposed equipment will enhance and contribute to local research programs in progress or being developed; potential for the equipment to support innovative and significant research.
- **Contribution to Education.** Potential that the proposed equipment will enhance local education efforts in the atmospheric and related sciences by providing new approaches to classroom and individual instruction. This includes the number of students that will be using the equipment, courses in which the equipment will be used as an integral part, and the new approaches to education that the equipment will facilitate.
- **System Management Competence.** Technical soundness of the proposal with respect to equipment selection and integration with existing local systems; capability of faculty and staff involved to manage and utilize the proposed equipment; adequacy of the institutional commitment to assist in obtaining, managing, and maintaining the proposed equipment.
- **Contribution to Unidata Community Capability.** Potential for the equipment and associated developments in concepts and software to contribute to the enhancement of the community capability for interactive analysis and computation through Unidata. Commitment to participate in Unidata's community-based support efforts, including but not limited to enhancing or augmenting the IDD system. This includes sites already acting as relay nodes that may need equipment upgrades as well as sites that are well-positioned on the network and have the willingness, expertise, and staff to act as relays but lack adequate equipment. This is especially true for departments on campuses that are being connected to Abilene. It also includes sites where the new equipment will facilitate the site acting as a data source or data recovery node for the community.

In addition, proposals should describe:

1. the relationship of the proposed system to the existing computing facilities, both departmental and institutional;
2. the percentage of the departmental computing resources that the proposed system comprises; and
3. the relationship of the proposed equipment to the departmental five-year strategic plan for computing capabilities.

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 mailed 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 solicitation will be reviewed by panel.

Reviewers will be asked to formulate a recommendation to either support or decline each proposal. A program officer assigned to manage the proposal's review will consider the advice of reviewers and will formulate a recommendation. **In most cases, proposers will be contacted by the program officer after his or her recommendation to award or decline funding has been approved by his or her supervisor, the division director. This informal notification is not a guarantee of an eventual award.** NSF will be able to tell applicants whether their proposals have been declined or recommended for funding within six months for 95 percent of proposals. The time interval begins on the proposal deadline or target date or from the date of receipt, if deadlines or target dates are not used by the program. 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 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 an 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 Officer does so at its own risk.

VI. AWARD ADMINISTRATION INFORMATION

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 (DGA). 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.

B. Grant Award Conditions.

An NSF grant consists of: (1) the award letter, which includes any special provisions applicable to the grant 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 grant conditions, such as Grant General Conditions (NSF GC-1)* or Federal Demonstration Partnership Phase III (FDP) Terms and Conditions* and (5) any NSF brochure, program guide, solicitation or other NSF issuance that may be incorporated by reference in the award letter. Electronic mail notification is the preferred way to transmit NSF grants 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/>>. Paper copies may be obtained from the NSF Publications Clearinghouse, telephone 301.947.2722 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, (NSF 95-26) available electronically on the NSF Web site. The GPM also is available in paper copy by subscription from 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>.

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 expiration of a grant, 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.

VII. CONTACTS FOR ADDITIONAL INFORMATION

General inquiries should be made to the NSF Unidata Program, Bernard M. Grant, Assistant Program Coordinator, or Clifford A. Jacobs, Program Director, Room 775, Division of Atmospheric Sciences, National Science Foundation, Arlington, VA 22230, telephone 703.306.1521, e-mail: bgrant@nsf.gov or cjacobs@nsf.gov. For questions related to the use of FastLane, contact Phyllis Hurley, phurley@nsf.gov or Ruth Joel, rjoel@nsf.gov at 703.306.1520.

VIII. OTHER PROGRAMS OF INTEREST

The NSF Guide to Programs is a compilation of funding for research and education in science, mathematics, and engineering. General descriptions of NSF programs, research areas, and eligibility information for proposal submission are provided in each chapter. Many NSF programs offer solicitations concerning specific proposal requirements. To obtain additional information about these requirements, contact the appropriate NSF program offices listed in Appendix A of the GPG. Any changes in NSF's fiscal year programs occurring after press time for the Guide to Programs will be announced in the NSF Bulletin, available monthly (except July and August), and in individual program solicitation. The Bulletin is available electronically via the NSF Web Site at <http://www.nsf.gov>. The direct URL for recent issues of the Bulletin is <http://www.nsf.gov/od/lpa/news/publicat/bulletin/bulletin.htm>. Subscribers can also sign up for NSF's Custom News Service to find out what funding opportunities are available.

ABOUT THE NATIONAL SCIENCE FOUNDATION

The National Science Foundation (NSF) funds research and education in most fields of science and engineering. Grantees 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 (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-supported projects. See the program solicitation or contact the program coordinator at (703) 306-1636.

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 regarding NSF programs, employment, or general information. TDD may be accessed at (703) 292-5090 or (800) 281-8749, or through FIRS on 1-800-877-8339.

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PRIVACY ACT AND PUBLIC BURDEN STATEMENTS

The information requested on proposal forms and project reports is solicited under the authority of the National Science Foundation Act of 1950, as amended. The information on proposal forms will be used in connection with the selection of qualified proposals; project reports submitted by awardees will be used for program evaluation and reporting within the Executive Branch and to Congress. The information requested 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 proposal review process, award decisions, or the administration of awards; to government contractors, experts, volunteers and researchers and educators as necessary to complete assigned work; to other government agencies needing information as part of the review process or in order to coordinate programs; and to another Federal agency, court or party in a court or Federal administrative proceeding if the government is a party. Information about Principal Investigators may be added to the Reviewer file and used to select potential candidates to serve as peer reviewers or advisory committee members. See Systems of Records, NSF-50, "Principal Investigator/Proposal File and Associated Records," 63 Federal Register 267 (January 5, 1998), and NSF-51, "Reviewer/Proposal File and Associated Records," 63 Federal Register 268 (January 5, 1998). Submission of the information is voluntary. Failure to provide full and complete information, however, may reduce the possibility of receiving an award.

Pursuant to 5 CFR 1320.5(b), an agency may not conduct or sponsor, and a person is not required to respond to an information collection unless it displays a valid OMB control number. The OMB control number for this collection is 3145-0058. 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 and any other aspect of this collection of information, including suggestions for reducing this burden, to: Suzanne Plimpton, Reports Clearance Officer, Information Dissemination Branch, Division of Administrative Services, National Science Foundation, Arlington, VA 22230, or to Office of Information and Regulatory Affairs of OMB, Attention: Desk Officer for National Science Foundation (3145-0058), 725 – 17th Street, N.W. Room 10235, Washington, D.C. 20503.

OMB# 3145-0058

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