

DEPARTMENT OF COMMERCE**National Institute of Standards and Technology**

[Docket No.: 041213349-4349-01]

Precision Measurement Grants Program; Availability of Funds**AGENCY:** National Institute of Standards and Technology, Commerce.**ACTION:** Notice.

SUMMARY: The National Institute of Standards and Technology (NIST) announces that the Precision Measurement Grants Program is soliciting applications for financial assistance for FY 2005. The Precision Measurement Grants Program is seeking proposals for significant research in the field of fundamental measurement or the determination of fundamental constants.

DATES: Abbreviated proposals must be received at the address listed below no later than 5 p.m. Eastern Standard Time on February 4, 2005. Proposals received after this deadline will be returned with no further consideration. Finalists will be selected by approximately March 24, 2005, and will be requested to submit full proposals to NIST. All full proposals, paper and electronic, must be received no later than 5 p.m. Eastern Standard Time on May 6, 2005.

ADDRESSES: Abbreviated proposals and paper applications must be submitted to: Dr. Peter J. Mohr; Manager, NIST Precision Measurement Grants Program; National Institute of Standards and Technology; 100 Bureau Drive, Stop 8420; Gaithersburg, MD 20899-8420.

FOR FURTHER INFORMATION CONTACT: For complete information about this program and instructions for applying by paper or electronically, read the Federal Funding Opportunity (FFO) Notice at <http://www.grants.gov>. A paper copy of the FFO may be obtained by calling (301) 975-6328. Technical questions should be addressed to: Dr. Peter J. Mohr at the address listed in the Addresses section above, or at Tel: (301) 975-3217; E-mail: mohr@nist.gov. Grants Administration questions should be addressed to: Grants and Agreements Management Division; National Institute of Standards and Technology; 100 Bureau Drive, Stop 3580; Gaithersburg, MD 20899-3580; Tel: (301) 975-6328. For assistance with using Grants.gov contact support@grants.gov.

SUPPLEMENTARY INFORMATION:

Catalog of Federal Domestic Assistance Name and Number: Measurement and Engineering Research and Standards—11.609.

Program Description: As part of its research program, since 1970 NIST has awarded Precision Measurement Grants primarily to universities and colleges so that faculty may conduct significant research in the field of fundamental measurement or the determination of fundamental constants. NIST sponsors these grants and cooperative agreements primarily to encourage basic, measurement-related research in universities and colleges and other research laboratories and to foster contacts between NIST scientists and those faculty members of academic institutions and other researchers who are actively engaged in such work. The Precision Measurement Grants are also intended to make it possible for researchers to pursue new ideas for which other sources of support may be difficult to find. There is some latitude in research topics that will be considered under the Precision Measurement Grants Program. The key requirement is that the proposed project support NIST's ongoing work in the field of basic measurement science.

Funding Availability: Applicants should propose multi-year projects for up to three years at no more than \$50,000 per year. NIST anticipates spending \$100,000 this year for two new grants at \$50,000 each for the first year of the research projects. NIST may award both, one, or neither of these new awards. Second and third year funding will be at the discretion of NIST, based on satisfactory performance, continuing relevance to program objectives, and the availability of funds.

Statutory Authority: The authority for the Precision Measurement Grants Program is as follows: As authorized by 15 U.S.C. 272 (b) and (c), NIST conducts directly, and supports through grants, a basic and applied research program in the general area of fundamental measurement and the determination of fundamental constants of nature.

Eligibility: Eligible applicants are institutions of higher education; hospitals; non-profit organizations; commercial organizations; state, local and Indian tribal governments; foreign governments; organizations under the jurisdiction of foreign governments; international organizations; and Federal agencies with appropriate legal authority.

Review and Selection Process: All abbreviated proposals and full applications received in response to this announcement will be reviewed to determine whether or not they are complete and responsive to the scope of the stated objectives for each program. Incomplete or non-responsive abbreviated proposals and full

applications will not be reviewed for technical merit. The Program will retain one copy of each non-responsive abbreviated proposal and full application for three years for record keeping purposes. The remaining copies will be destroyed.

To simplify the proposal writing and evaluation process, the following selection procedure will be used:

Applicants will initially submit abbreviated proposals, containing a description of the proposed project, including sufficient information to address the evaluation criteria, with a total length of no more than five (5) double spaced pages, to the mailing address given above in the **ADDRESSES** section. These proposals will be screened to determine whether they address the requirements outlined in this notice. Proposals that do not meet those requirements will not be considered further. Eight independent, objective individuals, at least half of whom are NIST employees, and who are knowledgeable about the scientific areas that the program addresses will conduct a technical review of each proposal, based on the evaluation criteria described in the Evaluation Criteria section for this program. The proposals will then be ranked based on the average of the reviewers' rankings. If non-Federal reviewers are used, the reviewers may discuss the proposals with each other, but the ranking will be determined on an individual basis, not as a consensus.

The Chief of the Atomic Physics Division of the Physics Laboratory, the selecting official, will then select approximately four to eight finalists. In selecting finalists, the selecting official will take into consideration the results of the reviewers' evaluations, including rank, and relevance to the program objectives described above in the Program Description section. Applicants not selected as finalists will be notified in writing.

Finalists will then be asked to submit full proposals containing a description of the proposed project, including sufficient information to address the evaluation criteria, with a length of no more than ten (10) double spaced pages in addition to the federally mandated forms and certifications, to the mailing address given above in the **ADDRESSES** section. The same independent reviewers will then evaluate the detailed proposals based on the same evaluation criteria, and the proposals will be ranked as previously described. In selecting proposals that will be recommended for funding, the selecting official will take into consideration the results of the reviewers' evaluations,

including rank, and relevance to the program objectives described in the Program Description and Objectives section for this program.

The final approval of selected applications and award of grants will be made by the NIST Grants Officer based on compliance with application requirements as published in this notice, compliance with applicable legal and regulatory requirements, compliance with Federal policies that best further the objectives of the Department of Commerce, and whether the recommended applicants appear to be responsible.

Applicants may be asked to modify objectives, work plans, or budgets and provide supplemental information required by the agency prior to award.

The decision of the Grants Officer is final.

Unsuccessful applicants will be notified in writing. The Program will retain one copy of each unsuccessful application for three years for record keeping purposes. The remaining copies will be destroyed.

Evaluation Criteria: The evaluation criteria to be used in evaluating the abbreviated application proposals and full proposals are:

1. The importance of the proposed research—Does it have the potential of answering some currently pressing question or of opening up a whole new area of activity?

2. The relationship of the proposed research to NIST's ongoing work—Will it support one of NIST's current efforts to develop a new or improved fundamental measurement method or physical standard, test the basic laws of physics, or provide an improved value for a fundamental constant?

3. The feasibility of the research and the potential impact of the grant—Is it likely that significant progress can be made in a three year time period with the funds and personnel available and that the funding will enable work that would otherwise not be done with existing or potential funding?

4. The qualifications of the applicant—Does the educational and employment background and the quality of the research, based on recent publications, of the applicant indicate that there is a high probability that the proposed research will be carried out successfully?

Each of these factors is given equal weight in the evaluation process.

Cost Share Requirements: The Precision Measurement Grants Program does not require any matching funds.

The Department of Commerce Pre-Award Notification Requirements for Grants and Cooperative Agreements:

The Department of Commerce Pre-Award Notification Requirements for Grants and Cooperative Agreements contained in the **Federal Register** notice of October 1, 2001 (66 FR 49917), as amended by the **Federal Register** notice published on October 30, 2002 (67 FR 66109), are applicable to this announcement. On the form SF-424, the applicant's 9-digit Dun and Bradstreet Data Universal Numbering System (DUNS) number must be entered in the Applicant Identifier block (68 FR 38402).

Collaborations with NIST Employees: All applications should include a description of any work proposed to be performed by an entity other than the applicant, and the cost of such work should ordinarily be included in the budget.

If an applicant proposes collaboration with NIST, the statement of work should include a statement of this intention, a description of the collaboration, and prominently identify the NIST employee(s) involved, if known. Any collaboration by a NIST employee must be approved by appropriate NIST management and is at the sole discretion of NIST. Prior to beginning the merit review process, NIST will verify the approval of the proposed collaboration. Any unapproved collaboration will be stricken from the proposal prior to the merit review.

Use of NIST Intellectual Property: If the applicant anticipates using any NIST-owned intellectual property to carry out the work proposed, the applicant should identify such intellectual property. This information will be used to ensure that no NIST employee involved in the development of the intellectual property will participate in the review process for that competition. In addition, if the applicant intends to use NIST-owned intellectual property, the applicant must comply with all statutes and regulations governing the licensing of Federal government patents and inventions, described at 35 U.S.C. sec. 200-212, 37 CFR part 401, 15 CFR 14.36, and in section 20 of the Department of Commerce Pre-Award Notification Requirements, 66 FR 49917 (2001), as amended by the **Federal Register** notice published on October 30, 2002 (67 FR 66109). Questions about these requirements may be directed to the Counsel for NIST, 301-975-2803.

Any use of NIST-owned intellectual property by a proposer is at the sole discretion of NIST and will be negotiated on a case-by-case basis if a project is deemed meritorious. The applicant should indicate within the

statement of work whether it already has a license to use such intellectual property or whether it intends to seek one.

If any inventions made in whole or in part by a NIST employee arise in the course of an award made pursuant to this notice, the United States government may retain its ownership rights in any such invention. Licensing or other disposition of NIST's rights in such inventions will be determined solely by NIST, and include the possibility of NIST putting the intellectual property into the public domain.

Paperwork Reduction Act: The standard forms in the application kit involve a collection of information subject to the Paperwork Reduction Act. The use of Standard Forms 424, 424A, 424B, SF-LLL, and CD-346 have been approved by OMB under the respective Control Numbers 0348-0043, 0348-0044, 0348-0040, 0348-0046, and 0605-0001.

Notwithstanding any other provision of the law, no person is required to respond to, nor shall any person be subject to a penalty for failure to comply with, a collection subject to the requirements of the Paperwork Reduction Act, unless that collection of information displays a currently valid OMB Control Number.

Research Projects Involving Human Subjects, Human Tissue, Data or Recordings Involving Human Subjects: Any proposal that includes research involving human subjects, human tissue, data or recordings involving human subjects must meet the requirements of the Common Rule for the Protection of Human Subjects, codified for the Department of Commerce at 15 CFR part 27. In addition, any proposal that includes research on these topics must be in compliance with any statutory requirements imposed upon the Department of Health and Human Services (DHHS) and other federal agencies regarding these topics, all regulatory policies and guidance adopted by DHHS, FDA, and other Federal agencies on these topics, and all Presidential statements of policy on these topics.

On December 3, 2000, the U.S. Department of Health and Human Services (DHHS) introduced a new Federal-wide Assurance of Protection of Human Subjects (FWA). The FWA covers all of an institution's Federally supported human subjects research, and eliminates the need for other types of Assurance documents. The Office for Human Research Protections (OHRP) has suspended processing of multiple

project assurance (MPA) renewals. All existing MPAs will remain in force until further notice. For information about FWAs, please see the OHRP Web site at <http://ohrp.osophs.dhhs.gov/humansubjects/assurance/fwass.htm>.

In accordance with the DHHS change, NIST will continue to accept the submission of human subjects protocols that have been approved by Institutional Review Boards (IRBs) possessing a current, valid MPA from DHHS. NIST also will accept the submission of human subjects protocols that have been approved by IRBs possessing a current, valid FWA from DHHS. NIST will not issue a single project assurance (SPA) for any IRB reviewing any human subjects protocol proposed to NIST.

On August 9, 2001, the President announced his decision to allow Federal funds to be used for research on existing human embryonic stem cell lines as long as prior to his announcement (1) the derivation process (which commences with the removal of the inner cell mass from the blastocyst) had already been initiated and (2) the embryo from which the stem cell line was derived no longer had the possibility of development as a human being. NIST will follow guidance issued by the National Institutes of Health at <http://ohrp.osophs.dhhs.gov/humansubjects/guidance/stemcell.pdf> for funding such research.

Research Projects Involving Vertebrate Animals: Any proposal that includes research involving vertebrate animals must be in compliance with the National Research Council's "Guide for the Care and Use of Laboratory Animals" which can be obtained from National Academy Press, 2101 Constitution Avenue, NW., Washington, DC 20055. In addition, such proposals must meet the requirements of the Animal Welfare Act (7 U.S.C. 2131 *et seq.*), 9 CFR parts 1, 2, and 3, and if appropriate, 21 CFR part 58. These regulations do not apply to proposed research using pre-existing images of animals or to research plans that do not include live animals that are being cared for, euthanized, or used by the project participants to accomplish research goals, teaching, or testing. These regulations also do not apply to obtaining animal materials from commercial processors of animal products or to animal cell lines or tissues from tissue banks.

Limitation of Liability: In no event will the Department of Commerce be responsible for proposal preparation costs if these programs fail to receive funding or are cancelled because of other agency priorities. Publication of this announcement does not oblige the

agency to award any specific project or to obligate any available funds.

Executive Order 12866: This funding notice was determined to be not significant for purposes of Executive Order 12866.

Executive Order 13132 (Federalism): It has been determined that this notice does not contain policies with federalism implications as that term is defined in Executive Order 13132.

Executive Order 12372: Applications under this program are not subject to Executive Order 12372, "Intergovernmental Review of Federal Programs."

Administrative Procedure Act/Regulatory Flexibility Act: Notice and comment are not required under the Administrative Procedure Act (5 U.S.C. 553) or any other law, for rules relating to public property, loans, grants, benefits or contracts (5 U.S.C. 553 (a)). Because notice and comment are not required under 5 U.S.C. 553, or any other law, for notices relating to public property, loans, grants, benefits or contracts (5 U.S.C. 553(a)), a Regulatory Flexibility Analysis is not required and has not been prepared for this notice, 5 U.S.C. 601 *et seq.*

Dated: December 17, 2004.

Hratch G. Semerjian,

Acting Director, NIST.

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DEPARTMENT OF COMMERCE

National Institute of Standards and Technology

[Docket No.: 041213350-4350-01]

Summer Undergraduate Research Fellowships (SURF) Gaithersburg and Boulder Programs; Availability of Funds

AGENCY: National Institute of Standards and Technology, Commerce.

ACTION: Notice.

SUMMARY: The National Institute of Standards and Technology (NIST) announces that the 2005 Summer Undergraduate Research Fellowships (SURF) Gaithersburg and Boulder programs are soliciting applications for financial assistance for FY 2005.

SUPPLEMENTARY INFORMATION: *CFDA Name and Number:* Measurement and Engineering Research and Standards—11.609.

Program Description: The SURF Gaithersburg program is soliciting applications in the areas of Electronics and Electrical Engineering,

Manufacturing Engineering, Chemical Science and Technology, Physics, Materials Science and Engineering, Building and Fire Research, and Information Technology.

The SURF Boulder program is soliciting applications in the areas of Electronics and Electrical Engineering, Chemical Science and Technology, Physics, Materials Science and Engineering, and Information Technology.

Applications for the Gaithersburg and Boulder programs are separate. Application to one program does not constitute application to the other, and applications will not be exchanged between the Gaithersburg and Boulder programs. If applicants wish to be considered at both sites, two separate applications must be submitted.

Both SURF programs will provide an opportunity for the NIST laboratories and the National Science Foundation (NSF) to join in a partnership to encourage outstanding undergraduate students to pursue careers in science and engineering. The programs will provide research opportunities for students to work with internationally known NIST scientists, to expose them to cutting-edge research and promote the pursuit of graduate degrees in science and engineering.

The NIST SURF Gaithersburg and Boulder Program Directors will work with appropriate department chairs, outreach coordinators, and directors of multi-disciplinary academic organizations to identify outstanding undergraduates (including graduating seniors) who would benefit from off-campus summer research in a world-class scientific environment.

EEEL, MEL, CSTL, PL, MSEL, BFRL, and ITL SURF Gaithersburg Programs

DATES: All SURF Gaithersburg Program applications, paper and electronic, must be received no later than 5 p.m. Eastern Standard Time on February 15, 2005.

ADDRESSES: For all SURF Gaithersburg Programs, paper applications must be submitted to: Ms. Anita Sweigert, Administrative Coordinator, National Institute of Standards and Technology, 100 Bureau Drive, Stop 8400, Gaithersburg, MD 20899-8400. Tel: (301) 975-4200, E-mail: anita.sweigert@nist.gov. Web site: <http://www.surf.nist.gov/surf2.htm>.

FOR FURTHER INFORMATION CONTACT: For complete information about this program and instructions for applying by paper or electronically, read the Federal Funding Opportunity Notice (FFO) at <http://www.grants.gov>. A paper copy of the FFO may be obtained by