

Grants Opportunities: Science & Tech (26) **March-May 2014**

Building Community and Capacity for Data-Intensive Research in the Social, Behavioral, and Economic Sciences and in Education and Human Resources

Granting Agency: National Science Foundation

Current Closing Date for Applications: 03/03/2014

Eligibility: Unrestricted

Estimated Total Program Funding: \$6,000,000

CFDA Number: 47.075, 47.076

Funding Opportunity Number: 14-517

As part of NSF's Cyberinfrastructure Framework for 21st Century Science and Engineering (CIF21) activity, the Directorate for Social, Behavioral, & Economic Sciences (SBE) and the Directorate for Education and Human Resources (EHR) seek to enable research communities to develop visions, teams, and capabilities dedicated to creating new, large-scale, next-generation data resources and relevant analytic techniques to advance fundamental research for the SBE and EHR areas of research. Successful proposals will outline activities that will have significant impacts across multiple fields by enabling new types of data-intensive research. Investigators should think broadly and create a vision that extends intellectually across multiple disciplines and that includes--but is not necessarily limited to--the SBE or EHR areas of research. **For more information, go to:** http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14517

National Strategy for Trusted Identities in Cyberspace (NSTIC) Pilots Cooperative Agreement Program

Granting Agency: National Institute of Standards and Technology

Current Closing Date for Applications: 03/06/2014

Eligibility: Accredited institutions of higher education; hospitals; non-profit organizations; commercial organizations. An eligible organization may work individually or include proposed subawardees, contractors or other collaborators in a project, effectively forming a team or consortium. An organization may submit more than one application but each must be on a distinct topic. Federal agencies may participate in projects but may not receive NIST funding.

CFDA Number: 11.609 -- Measurement and Engineering Research and Standards

Funding Opportunity Number: 2014-NIST-NSTIC-01

NIST is soliciting applications from eligible applicants to pilot online identity solutions that embrace and advance the NSTIC vision: that individuals and organizations utilize secure, efficient, easy-to-use, and interoperable identity credentials to access online services in a manner that promotes confidence, privacy, choice, and innovation. Specifically, the Federal government seeks to initiate and support pilots that address the needs of individuals, private sector organizations, and all levels of government in accordance with the NSTIC Guiding Principles that identity solutions will be (1) privacy-enhancing and voluntary, (2) secure and resilient, (3) interoperable, and (4) cost-effective and easy-to-use. NIST will fund projects that are intended to test or demonstrate new solutions, models, and frameworks that either do not exist or are not widely adopted in the marketplace today. **For more information, go to:**
<http://www.nist.gov/nstic/NSTIC-Pilot-FFO-01-2014.pdf>

ROSES 2013: Suomi National Polar-orbiting Partnership (NPP) Science Team and Science Investigator-led Processing Systems for Earth System Data Records From Suomi NPP

Granting Agency: NASA Headquarters — National Aeronautics and Space Administration

Current Closing Date for Applications: 03/10/2014

Eligibility: Proposers must be affiliated with an institution at nspires.nasaprs.com.

CFDA Number: 43.001

Funding Opportunity Number: NNH13ZDA001N-SNPP

"Research Opportunities in Space and Earth Sciences - 2013 (ROSES-2013), will be available on or about February 14, 2013, by opening the NASA Research Opportunities homepage at <http://nspires.nasaprs.com/> and then linking through the menu listing "Solicitations" to "Open Solicitations." This NASA Research Announcement (NRA) solicits proposals for supporting basic and applied research and technology across a broad range of Earth and space science program elements relevant to one or more of the following NASA Research Programs: Earth Science, Heliophysics, Planetary Science, and Astrophysics. **For more information, go to:**
<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={01BFD3EE-87EF-FC55-1F52-EB37A9F139F0}&path=open>

Software Infrastructure for Sustained Innovation

Granting Agency: National Science Foundation

Current Closing Date for Applications: 03/17/2014

Expected Number of Awards: 25

Eligibility: Independent museums, observatories, research labs, professional societies and similar organizations in the U.S. associated with educational or research activities. Universities and two- and four-year colleges (including community colleges) accredited in, and having a campus located in, the US acting on behalf of their faculty members.

Estimated Total Program Funding: \$24,500,000

CFDA Number: 47.041, 47.049, 47.050, 47.070, 47.074, 47.075, 47.076

Funding Opportunity Number: 14-520

The goal of the SI2 program is to create a software ecosystem that includes all levels of the software stack and scales from individual or small groups of software innovators to large hubs of software excellence. The program addresses all aspects of cyberinfrastructure, from embedded sensor systems and instruments, to desktops and high-end data and computing systems, to major instruments and facilities. Furthermore, it recognizes that integrated education activities will play a key role in sustaining the cyberinfrastructure over time and in developing a workforce capable of fully realizing its potential in transforming science and engineering. **For more information, go to:** http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14520

STEM-C Partnerships: MSP

Granting Agency: National Science Foundation

Current Closing Date for Applications: 03/18/2014

Expected Number of Awards: 22

Eligibility: Independent museums, observatories, research labs, professional societies and similar organizations in the U.S. associated with educational or research activities. Universities and two- and four-year colleges (including community colleges) accredited in, and having a campus located in, the US acting on behalf of their faculty members.

Estimated Total Program Funding: \$57,080,000

CFDA Number: 47.070, 47.076

Funding Opportunity Number: 14-522

The STEM-C (Science, Technology, Engineering and Mathematics, including Computing) Partnerships program is a major research and development effort of two NSF Directorates, the Directorate for Education and Human Resources and the Directorate for Computer and Information Science and Engineering, which supports innovative partnerships to improve teaching and learning in science, technology, engineering, and mathematics (STEM) disciplines. STEM-C Partnerships combines and advances the efforts of both the former Math and Science Partnership (MSP) and the former Computing Education for the 21st Century (CE21) programs. It is critical that our nation maintain a competent, competitive and creative STEM workforce, including teachers. Therefore, NSF aims to inspire and motivate the next generation of that workforce, while ensuring that it has the skills, competencies, and preparation to be successful.

For more information, go to:

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14522

Resilient Interdependent Infrastructure Processes and Systems

Granting Agency: National Science Foundation

Current Closing Date for Applications: 03/19/2014

Expected Number of Awards: 20

Eligibility: Because this program is meant to support interdisciplinary research, a minimum of three investigators is required per project, the Principal Investigator (PI) and two or more co-Investigators from the lead or participating institutions who are eligible to serve as PI or co-PI on NSF proposals submitted through their respective institutions. In order to ensure an interdisciplinary approach to studying ICIs principal investigators should represent three or more distinct disciplinary areas as described in this solicitation (computer science; engineering; social, economic, and behavioral sciences). Additional PIs or senior personnel may be added to cover other interdisciplinary needs of the project. The appropriateness of the research team's disciplinary composition and expertise will be factors in the merit review of the proposals (see Additional Review Criteria section).

Estimated Total Program Funding: \$15,000,000

CFDA Number: 47.041, 47.070 , 47.075

Funding Opportunity Number: 14-524

The goals of the Resilient Interdependent Infrastructure Processes and Systems (RIPS) solicitation are (1) to foster an interdisciplinary research community that discovers new knowledge for the design and operation of infrastructures as processes and services (2) to enhance the understanding and design of interdependent critical infrastructure systems (ICIs) and processes that provide essential goods and services despite disruptions and failures from any cause, natural, technological, or malicious, and (3) to create the knowledge for innovation in ICIs to advance society with new goods and services. The objectives of this solicitation are: Create theoretical frameworks and multidisciplinary computational models of interdependent infrastructure systems, processes and services, capable of analytical prediction of complex behaviors, in response to system and policy changes. Synthesize new approaches to increase resilience, interoperations, performance, and readiness in ICIs. Understand organizational, social, psychological, legal, political and economic obstacles to improving ICI's, and identifying strategies for overcoming those obstacles. **For more information, go to:**
http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14524

Shared Instrumentation Grant Program

(S10)

Granting Agency: National Institutes of Health

Current Closing Date for Applications: 03/21/2014

Expected Number of Awards: 80

Eligibility: Nonprofits with or without a 501(c)(3) status with the IRS; Public, Private, and State controlled institutions of higher education; Asian American Native American Pacific Islander Serving Institutions (AANAPISISs); Hispanic-serving Institutions.

Estimated Total Program Funding: \$40,000,000

CFDA Number: 93.351

Funding Opportunity Number: PAR-14-073

The ORIP Shared Instrument Grant (SIG) program encourages applications from groups of NIH-supported investigators to purchase or upgrade a single item of expensive, specialized, commercially available instrumentation or an integrated system that costs at least \$100,000. The

maximum award is \$600,000. Types of instruments supported include, but are not limited to, confocal and electron microscopes, biomedical imagers, mass spectrometers, DNA sequencers, biosensors, cell-sorters, X-ray diffraction systems, and nuclear magnetic resonance (NMR) spectrometers among others. **For more information, go to:**
<http://grants.nih.gov/grants/guide/pa-files/PAR-14-073.html>

Secure and Trustworthy Cyberspace: Secure, Trustworthy, Assured and Resilient Semiconductors and Systems

Granting Agency: National Science Foundation

Current Closing Date for Applications: 03/26/2014

Expected Number of Awards: 6

Eligibility: Unrestricted

Estimated Total Program Funding: \$3,000,000

CFDA Number: 47.041, 47.070

Funding Opportunity Number: 14-528

Through this solicitation -- a track within the NSF SaTC program -- NSF and the Semiconductor Research Corporation (SRC) are announcing a joint partnership in the area of Secure, Trustworthy, Assured and Resilient Semiconductors and Systems (SaTC: STARSS) focused on research on Design for Assurance. Specifically, NSF and SRC will support research on new strategies for architecture, specification and verification, especially at the stages of design in which formal methods are currently weak or absent, with the aim of decreasing the likelihood of unintended behavior or access, increasing resistance and resilience to tampering, and improving the ability to provide authentication throughout the supply chain and in the field. The SaTC:STARSS solicitation will support proposals of up to \$500,000 in total budget, with durations of up to three years. **For more information, go to:**
http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14528

Folded Non-Natural Polymers with Biological Function (Fold F(x))

Granting Agency: DARPA - Defense Sciences Office — Department of Defense

Current Closing Date for Applications: 04/03/2014

Eligibility: Unrestricted

CFDA Number: 12.910

Funding Opportunity Number: DARPA-BAA-14-13

The DARPA Fold F(x) program objective is to develop processes enabling the rapid synthesis, screening, sequencing and scale-up of folded, non-natural, sequence-defined polymers with expanded functionality. The program will specifically address the development of non-natural affinity reagents that can bind and respond to a selected target, as well as catalytic systems that can either synthesize or degrade a desired target. DARPA anticipates that successful efforts will include (1) novel synthetic approaches that yield large libraries (>10⁹ members) of non-natural

sequence-defined polymers; (2) flexible screening strategies that enable the selection of high affinity/specificity binders and high activity/selectivity catalysts from the non-natural libraries; (3) demonstration that the screening approach can rapidly (<4 days) yield affinity reagents or catalysts against targets of interest to the DoD; and (4) demonstration of scalability and transferability to the DoD scientific community. See Attached DARPA-BAA-14-13. **For more information, go to:**

https://www.fbo.gov/index?s=opportunity&mode=form&id=a21445c20e3a9d9878a0a80a1fa6435e&tab=core&_cview=0

MacroSystems Biology: Research on Biological Systems at Regional to Continental Scales

Granting Agency: National Science Foundation

Current Closing Date for Applications: 04/07/2014

Expected Number of Awards: 15

Eligibility: Independent museums, observatories, research labs, professional societies and similar organizations in the U.S. associated with educational or research activities. Universities and two- and four-year colleges (including community colleges) accredited in, and having a campus located in the US, acting on behalf of their faculty members.

Estimated Total Program Funding: \$20,000,000

CFDA Number: 47.074

Funding Opportunity Number: 12-532

This grant will support quantitative, interdisciplinary, systems-oriented research on biosphere processes and their complex interactions with climate, land use, and invasive species at regional to continental scales as well as planning, training, and development activities to enable groups to conduct MacroSystems Biology Research. **For more information, go to:**

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf12532

Cyber-Innovation for Sustainability Science and Engineering

Granting Agency: National Science Foundation

Current Closing Date for Applications: 04/08/2014

Expected Number of Awards: 25

Eligibility: Due to this program's focus on interdisciplinary, collaborative research, a minimum of two collaborating investigators (PIs/Co-PIs) working in different disciplines is required. Applicants are urged to review the interdisciplinary, collaborative expectations of this program - described in the Program Description and Merit Review Criteria - which must be reflected in the project plans and project teams of all competitive proposals.

Estimated Total Program Funding: \$10,500,000

CFDA Number: 47.041, 47.049, 47.050, 47.070, 47.074, 47.076

Funding Opportunity Number: 14-531

Paragraph-long description: The Cyber-Innovation for Sustainability Science and Engineering (CyberSEES) program aims to advance interdisciplinary research in which the science and engineering of sustainability are enabled by new advances in computing, and where computational innovation is grounded in the context of sustainability problems. The CyberSEES program is one component of the National Science Foundation's Science, Engineering, and Education for Sustainability (SEES) activities, a Foundation-wide effort aimed at addressing the challenge of sustainability through support for interdisciplinary research and education. In the SEES context, a sustainable world is one where human needs are met equitably without harm to the environment or sacrificing the ability of future generations to meet their own needs. Computational approaches play a central role in understanding and advancing sustainability. CyberSEES supports research on all sustainability topics that depend on advances in computational areas including optimization, modeling, simulation, prediction, and inference; large-scale data management and analytics; advanced sensing techniques; human computer interaction and social computing; infrastructure design, control and management; and intelligent systems and decision-making. Additionally, the widespread, intensive use of computing technologies also introduces sustainability challenges and motivates new approaches across the lifecycle of technology design and use. **For more information, go to:** <http://www.grants.gov/web/grants/search-grants.html>

Data Infrastructure Building Blocks

Granting Agency: National Science Foundation

Current Closing Date for Applications: 04/09/2014

Expected Number of Awards: 9

Eligibility: Organizations eligible to serve as lead are U.S. academic institutions or U.S. non-profit research organizations directly associated with educational and/or research activities. Organizations eligible to serve as subawardees are all those organizations eligible under the provisions of the NSF Grant Proposal Guide (GPG). In the interest of project management, there must be a single centralized award with subawardees as needed.

Estimated Total Program Funding: \$20,000,000

CFDA Number: 47.041, 47.049, 47.050, 47.070, 47.074, 47.075, 47.076, 47.079

Funding Opportunity Number: 14-530

NSF's vision for a Cyberinfrastructure Framework for 21st Century Science and Engineering (CIF21) considers an integrated, scalable, and sustainable cyberinfrastructure as crucial for innovation in science and engineering (see www.nsf.gov/cif21). The Data Infrastructure Building Blocks (DIBBs) program is an integral part of CIF21. The DIBBs program encourages development of robust and shared data-centric cyberinfrastructure capabilities to accelerate interdisciplinary and collaborative research in areas of inquiry stimulated by data. Effective solutions will bring together cyberinfrastructure expertise and domain researchers, to ensure that the resulting cyberinfrastructure components address the researchers' data needs. The activities should address the data challenges arising in a disciplinary or cross-disciplinary context. **For more information, go to:** <http://www.grants.gov/web/grants/search-grants.html>

Enhancing Access to the Radio Spectrum

Granting Agency: National Science Foundation

Current Closing Date for Applications: 04/18/2014

Expected Number of Awards: 48

Eligibility: Independent museums, observatories, research labs, professional societies and similar organizations in the U.S. associated with educational or research activities. Universities and two- and four-year colleges (including community colleges) accredited in, and having a campus located in, the US acting on behalf of their faculty members.

Estimated Total Program Funding: \$36,000,000

CFDA Number: 47.041, 47.049, 47.070

Funding Opportunity Number: 14-529

The National Science Foundation's Directorates for Mathematical and Physical Sciences (MPS), Engineering (ENG), and Computer and Information Science and Engineering (CISE) are coordinating efforts to identify bold new concepts with the potential to contribute to significant improvements in the efficiency of radio spectrum utilization, and in the ability for traditionally underserved Americans to benefit from current and future wireless-enabled goods and services. EARS seeks to fund innovative collaborative research that transcends the traditional boundaries of existing programs, such as research that spans disciplines covered by two or more of the participating NSF directorates. **For more information, go to:**

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14529

Coupling, Energetics, and Dynamics of Atmospheric Regions

Granting Agency: National Science Foundation

Current Closing Date for Applications: 5/12/2014

Expected Number of Awards: 15

Eligibility: Unrestricted

Estimated Total Program Funding: \$1,000,000

CFDA Number: 47.050

Funding Opportunity Number: 06-561

CEDAR is a broad-based, community-initiated, upper atmospheric research program. The goal is to understand the behavior of atmospheric regions from the middle atmosphere upward through the thermosphere and ionosphere into the exosphere in terms of coupling, energetics, chemistry, and dynamics on regional and global scales. These processes are related to the sources of perturbations that propagate upward from the lower atmosphere as well as to solar radiation and particle inputs from above. The activities within this program combine observations, theory and modeling. **For more information go to:**

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf06561

National Security Science and Engineering Faculty Fellowship

Granting Agency: Office of Naval Research

Current Closing Date for Applications: 05/12/2014

Expected Number of Awards: 99

Eligibility: Public and State controlled institutions of higher education; Private institutions of higher education

CFDA Number: 12.300

Funding Opportunity Number: ONRFOA14-005

The National Security Science and Engineering Faculty Fellowship (NSSEFF) program is sponsored by the Basic Research Office, Office of Assistant Secretary of Defense for Research and Engineering (ASD (R&E)). NSSEFF supports innovative basic research within academia, as well as education initiatives that seek to create and develop the next generation of scientists and engineers for the defense and national security workforce. **For more information go to:**

<http://www.onr.navy.mil/Contracts-Grants/Funding-Opportunities/Broad-Agency-Announcements.aspx>

Research Experiences for Undergraduates

Granting Agency: National Science Foundation

Current Closing Date for Applications: 05/23/2014

Expected Number of Awards: 1800

Eligibility: *PI Limit: For REU Site proposals, a single individual maybe designated as the Principal Investigator. This individual will be responsible for overseeing all aspects of the award. However, one additional person may be designated as Co-Principal Investigator if developing and operating the REU Site would involve such shared responsibility. Other anticipated research supervisors should be listed as Non-Co-PI Senior Personnel. After a proposal is awarded, some NSF units may allow the addition of more Co-PIs if an exceptional case can be made for why the management of the REU Site must be distributed.

Estimated Total Program Funding: 68,400,000

CFDA Number: 47.041; 47.049; 47.050; 47.070; 47.074; 47.075; 47.076; 47.078; 47.079; 47.080; 47.081

Funding Opportunity Number: 13-542

The Research Experiences for Undergraduates (REU) program supports active research participation by undergraduate students in any of the areas of research funded by the National Science Foundation. REU projects involve students in meaningful ways in ongoing research programs or in research projects specifically designed for the REU program. This solicitation features two mechanisms for support of student research: (1) REU Sites are based on independent proposals to initiate and conduct projects that engage a number of students in research. REU Sites may be based in a single discipline or academic department or may offer interdisciplinary or multi-department research opportunities with a coherent intellectual theme. Proposals with an international dimension are welcome. (2) REU Supplements may be included as a component of proposals for new or renewal NSF grants or cooperative agreements or may be requested for ongoing NSF-funded research projects. **For more information go to:**

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf13542

Planning Program and Local Technical Assistance Program

Granting Agency: Economic Development Administration

Current Closing Date for Applications: Applications are accepted on a continuing basis and processed as received. This Planning and Local Technical Assistance opportunity will remain in effect until superseded by a future announcement.

Expected Number of Awards: 425

Eligibility: Public, State controlled, and Private institutions of higher education; Nonprofits with or without a 501(c)(3) status with the IRS

CFDA Number: 11.302, 11.303

Funding Opportunity Number: EDAPLANNING2012

Pursuant to PWEDA, EDA announces general policies and application procedures for grant-based investments under the Planning and Local Technical Assistance programs. Under the Planning program EDA assists eligible recipients in creating regional economic development plans designed to stimulate and guide the economic development efforts of a community or region. As part of this program, EDA supports Partnership Planning investments to facilitate the development, implementation, revision, or replacement of Comprehensive Economic Development Strategies (CEDs), which articulate and prioritize the strategic economic goals of recipients' respective regions. In general, EDA provides Partnership Planning grants to the designated planning organization (e.g., District Organization) serving EDA-designated Economic Development Districts to enable these organizations to develop and implement relevant CEDs.

Supplemental Opportunity for SBIR/STTR Memberships in I/UCRCs

Granting Agency: National Science Foundation

Eligibility: Unrestricted

CFDA Number: 47.041

Funding Opportunity Number: PD-09-5761

NSF invites supplemental requests for Small Business Innovation Research and Small Business Technology Transfer (SBIR/STTR) grantees to join an Industry/University Cooperative Research Center (I/UCRC). The supplements are intended to accelerate the innovation process by partnering industry-relevant academic research with commercialization focused small business research. The supplements will enable small businesses to purchase annual memberships in I/UCRCs; thus opening the doors to the benefits of the centers' collaborative research endeavors, which are directed to the needs of specific industries. Please see the section for additional information about this opportunity. **For more information, go to:** http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503192

Physical and Dynamic Meteorology

Granting Agency: National Science Foundation

Eligibility: Unrestricted

CFDA Number: 47.050

Funding Opportunity Number: PD-98-1522

Physical and Dynamic Meteorology supports research involving studies of cloud physics; atmospheric electricity; radiation; boundary layer and turbulence; the initiation, growth, and

propagation of gravity waves; all aspects of mesoscale meteorological phenomena, including their morphological, thermodynamic, and kinematic structure; development of mesoscale systems and precipitation processes; and transfer of energy between scales. The program also sponsors the development of new techniques and devices for atmospheric measurements. **For more information, go to:** http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12728

Solar Terrestrial

Granting Agency: National Science Foundation

Eligibility: Unrestricted

CFDA Number: 47.050

Funding Opportunity Number: PD-98-1523

Supports research on the processes by which energy in diverse forms is generated by the Sun, transported to the Earth, and ultimately deposited in the terrestrial environment. Major topics include space weather impacts, helioseismology, the solar dynamo, the solar activity cycle, magnetic flux emergence, solar flares and eruptive activity, coronal mass ejections, solar wind heating, solar energetic particles, interactions with cosmic rays, and solar wind/magnetosphere boundary problems. **For more information, go to:**

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12741

Magnetospheric Physics

Granting Agency: National Science Foundation

Eligibility: Unrestricted

CFDA Number: 47.049 -- Mathematical and Physical Sciences

Funding Opportunity Number: PD-98-5750

Supports research on the magnetized plasma envelope of the outer atmosphere, including energization by the solar wind; the origin of geomagnetic storms and substorms; the population by solar and ionospheric sources; the origin of electric fields; the coupling among the magnetosphere, ionosphere, and atmosphere; and waves and instabilities in the natural plasma. Also supported are ground-based observational programs at high latitudes and laboratory experiments applicable to the geospace environment. Theoretical research programs may include numerical simulations using a variety of MHD, hybrid and particle codes. The analysis of data from all sources, whether ground-based or from spacecraft, is also supported

For more information, go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=11725

Measurement Science and Engineering (MSE) Research Grant Programs

Granting Agency: National Institute of Standards and Technology

Current Closing Date for Applications: For all programs listed in this FFO, proposals will be considered on a continuing/rolling basis. For all programs except the Fire Research Grant Program, proposals received after 5:00 p.m. Eastern Time on June 1, 2012 may be processed and considered for funding under this FFO in the current fiscal year or in the next fiscal year until a new FFO is posted on the Grants.gov Web site (www.grants.gov), subject to the availability of

funds. For the Fire Research Grant Program, proposals received after 5:00 p.m. Eastern Time on January 30, 2012 may be processed and considered for funding under this FFO in the current fiscal year or in the next fiscal year until a new FFO is posted on Grants.gov, subject to the availability of funds. Proposers should allow up to 90 days processing time.

Eligibility: Institutions of higher education; Hospitals; Non-profit organizations; Commercial organizations.

CFDA Number: 11.609

Funding Opportunity Number: 2012-NIST-MSE-01

NIST is soliciting proposals for financial assistance for FY 2012 under the following nine programs: (1) Material Measurement Laboratory (MML) Grant Program; (2) Physical Measurement Laboratory (PML) Grant Program; (3) Engineering Laboratory (EL) Grant Program; (4) Fire Research Grant Program; (5) Information Technology Laboratory (ITL) Grant Program; (6) NIST Center for Neutron Research (NCNR) Grant Program; (7) Center for Nanoscale Science and Technology (CNST) Grant Program; (8) Standards Services Group (SSG) Grant Program; and (9) Office of Special Programs (OSP) Grant Program. Details of each program can be found in the Full Announcement for 2012-NIST-MSE-01 **For more information, go to:** <http://www.nist.gov/director/ocfo/grants/upload/2012-MSE-FFO-Amendment.pdf>

FY 2011 Measurement Science and Engineering Research Grants Programs

Granting Agency: National Institute of Standards and Technology

Current Closing Date for Applications: Applications will be considered on a continuing basis for all programs listed in this notice. For all programs except the Fire Research Grants Program, applications received after June 1, 2011 may be processed and considered for funding under this solicitation in the current fiscal year or in the next fiscal year, subject to the availability of funds. For the Fire Research Grants Program, applications received after January 30, 2011 may be processed and considered for funding under this solicitation in the current fiscal year or in the next fiscal year, subject to the availability of funds. Applications, paper and electronic, must be received prior to the announcement on Grants.gov of the FY 2012 solicitation for the NIST MSE Research Grants Programs in order to be processed under this solicitation.

Eligibility: Institutions of higher education; Hospitals; Non-profit organizations; Commercial organizations.

CFDA Number: 11.609

Funding Opportunity Number: 2011-MSE-01

The National Institute of Standards and Technology (NIST) announces that the following programs are soliciting applications for financial assistance for FY 2011: (1) the Material Measurement Laboratory Grants Program; (2) the Physical Measurement Laboratory Grants Program; (3) the Engineering Laboratory Grants Program; (4) the Fire Research Grants Program; (5) the Information Technology Laboratory Grants Program; (6) the NIST Center for Neutron Research Grants Program; (7) the Center for Nanoscale Science and Technology Grants and Cooperative Agreements Program; (8) the Standards Services Group Grants and Cooperative Agreements Program; and (9) the Law Enforcement Standards Office (OLEs) Grants and Cooperative Agreements Program. Details of these programs can be found in the Full

Announcement. **For more information, go to:**
<http://www.nist.gov/director/ocfo/grants/upload/2011-mse-ffo.pdf>

Measurement Science and Engineering (MSE) Research Grants Programs

Granting Agency: National Institute of Standards and Technology

Current Closing Date for Applications: Applications for all programs listed in this notice will be considered on a continuing basis. For all programs except the Fire Research Grants Program, applications received after June 1, 2010 may be processed and considered for funding under this solicitation in the current fiscal year or in the next fiscal year, subject to the availability of funds. For the Fire Research Grants Program, applications received after January 15, 2010 may be processed and considered for funding under this solicitation in the current fiscal year or in the next fiscal year, subject to the availability of funds. Applications, paper and electronic, must be received prior to the publication date in the Federal Register of the FY 2011 solicitation for the NIST MSE Research Grants Programs in order to be processed under this solicitation.

Eligibility: For profit organizations; Small businesses; Nonprofits with or without a 501(c)(3) status with the IRS, other than institutions of higher education; Private, Public and State controlled institutions of higher education

CFDA Number: 11.609 -- Measurement and Engineering Research and Standards

Funding Opportunity Number: 2010-MSE-01

The National Institute of Standards and Technology (NIST) announces that the following programs are soliciting applications for financial assistance for FY 2010: (1) the Electronics and Electrical Engineering Laboratory Grants Program; (2) the Manufacturing Engineering Laboratory Grants Program; (3) the Chemical Science and Technology Laboratory Grants Program; (4) the Physics Laboratory Grants Program; (5) the Materials Science and Engineering Laboratory Grants Program; (6) the Building Research Grants and Cooperative Agreements Program; (7) the Fire Research Grants Program; (8) the Information Technology Laboratory Grants Program; (9) the NIST Center for Neutron Research Grants Program; and (10) Center for Nanoscale Science and Technology Grants Program; and (11) the Technology Services Grants Program. **For more information, go to:**

http://www.nist.gov/director/ocfo/grants/upload/2010_MSE_FFO120809.pdf

High-Risk Research in Anthropology

Granting Agency: National Science Foundation

Expected Number of Awards: 5

Eligibility: Unrestricted

Estimated Total Program Funding: \$125,000

CFDA Number: 47.075

Funding Opportunity Number: 08-523

Anthropological research may be conducted under unusual circumstances, often in distant locations. As a result the ability to conduct potentially important research may hinge on factors that are impossible to assess from a distance and some projects with potentially great payoffs may face difficulties in securing funding. This program gives small awards that provide

investigators with the opportunity to assess the feasibility of an anthropological research project. The information gathered may then be used as the basis for preparing a more fully developed research program. Projects which face severe time constraints because of transient phenomena or access to materials may also be considered. Investigators must contact the cognizant NSF Program Director before submitting an HRRRA proposal. This will facilitate determining whether the proposed work is appropriate for HRRRA support. **For more information, go to:**
http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf08523

CubeSat-based Science Missions for Geospace and Atmospheric Research

Granting Agency: National Science Foundation

Current Closing Date for Applications: Opportunity NSF 12-536 is waiting for new publication.

Expected Number of Awards: 2

Eligibility: Unrestricted

Estimated Total Program Funding: \$600,000

CFDA Number: 47.050

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Lack of essential observations from space is currently a major limiting factor in many areas of geospace and atmospheric research. Recent advances in sensor and spacecraft technologies make it feasible to obtain key measurements from low-cost, small satellite missions. A particularly promising aspect of this development is the prospect for obtaining multi-point observations in space that are critical for addressing many outstanding problems in space and atmospheric sciences. Space-based measurements from small satellites also have great potential to advance discovery and understanding in geospace and atmospheric sciences in many other ways. To take full advantage of these developments, NSF is soliciting research proposals centered on small satellite missions. The overarching goal of the program is to support the development, construction, launch, operation, and data analysis of small satellite science missions to advance geospace and atmospheric research. Equally important, it will provide essential opportunities to train the next generation of experimental space scientists and aerospace engineers. **For more information, go to:**

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf12536