STEM Education funding sources

August 25, 2008

National Science Foundation

Robert Noyce Teacher Scholarship

The Robert Noyce Teacher Scholarship program seeks to encourage talented science, technology, engineering, and mathematics majors and professionals to become K-12 mathematics and science teachers. The program provides funds to institutions of higher education to support scholarships, stipends, and programs for students who commit to teaching in high-need K-12 school districts. Innovation through Institutional Integration (I3) projects enable institutions to think and act strategically about the creative integration of NSF-funded awards, with particular emphasis on awards managed through programs in the Directorate for Education and Human Resources (EHR), but not limited to those awards. For Fiscal Year 2008, proposals are being solicited in six EHR programs that advance I3 goals: CREST, ITEST, MSP, Noyce, RDE, and TCUP. Link to Full Announcement: NSF Publication 08-532

Organization Limit: Proposals may only be submitted by the following: -Universities and two- or four-year colleges (including community colleges) located and accredited in the US, or consortia of such institutions, or US nonprofit entities that have established consortia among such institutions of higher education may submit Noyce proposals. Eligibility for Innovation through Institutional Integration (I³) is limited to institutions of higher education (including two- and four-year colleges) located and accredited in the US, acting on behalf of their faculty members. *PI Limit: For Noyce Scholarship Proposals, the PI, or at least one Co-PI, must be a faculty member in a mathematics, science, or engineering department. The PI for an Innovation through Institutional Integration proposal must be the university provost or equivalent, unless the proposal is exclusively for STEM educational or related research.

Expected Number of Awards:	18
Estimated Total Program Funding:	$9,000,000
Award Ceiling:	$750,000
Award Floor:	$150,000
CFDA Number(s):	47.076 -- Education and Human Resources
Cost Sharing or Matching Requirement:	No
Current Closing Date for Applications:	Apr 10, 2008

Math and Science Partnership

The Math and Science Partnership (MSP) program is a major research and development effort that supports innovative partnerships to improve K-12 student achievement in mathematics and science. MSP projects are expected to raise the achievement levels of all students and significantly reduce achievement gaps in the mathematics and science performance of diverse student populations. In order to improve the mathematics and science achievement of the Nation's students, MSP projects contribute to the knowledge base for mathematics and science education and serve as models that have a sufficiently strong evidence base to be replicated in educational practice. In this solicitation, NSF seeks to support six types of awards: Targeted Partnerships focus on studying and addressing issues within a specific grade range or at a critical juncture in education, and/or within a specific disciplinary focus in mathematics or the sciences; Institute Partnerships - Teacher Institutes for the 21st Century are designed to meet national needs for teacher leaders/master teachers who have deep knowledge of disciplinary content and are school- or district-based intellectual leaders in mathematics and science; MSP-Start Partnerships are for awardees new to the MSP program, especially from minority-serving institutions, community colleges and

primarily undergraduate institutions, to support the necessary data analysis, project design, evaluation and team building activities needed to develop a full MSP Targeted or Institute Partnership; Phase II Partnerships for prior MSP Partnership awardees focus on specific innovative areas of their work where evidence of significant positive impact is clearly documented and where an investment of additional resources and time would produce more robust findings and results; Research, Evaluation and Technical Assistance (RETA) projects directly support the work of the Partnerships, especially by developing tools to assess teachers' growth in the knowledge of mathematics or the sciences needed for teaching, conducting longitudinal studies of teachers and their students who participate in the MSP projects, or engaging the national disciplinary and professional societies in MSP work; and Innovation through Institutional Integration (I3) projects enable institutions to think and act strategically about the creative integration of NSF-funded awards, with particular emphasis on awards managed through programs in the Directorate for Education and Human Resources (EHR), but not limited to those awards. For Fiscal Year 2008, proposals are being solicited in six EHR programs that advance I3 goals: CREST, ITEST, MSP, Noyce, RDE, and TCUP. Link to Full Announcement: NSF Publication 08-525

Proposals may only be submitted by the following: For all Targeted, Institute, MSP-Start and Phase II Partnerships, one of the core partner organizations serves as the LEAD partner and submits the MSP proposal on behalf of the Partnership. The lead partner accepts management and fiduciary responsibility for the project. Lead partner eligibility for any of the Partnership categories - Targeted, Institute, MSP-Start or Phase II - is limited to an institution of higher education or an eligible non-profit organization (or consortia of such institutions or organizations). Eligibility for Phase II Partnerships is limited to institutions of higher education that were partners in previously funded Comprehensive or Targeted Partnerships whose work began in 2002 or 2003. Eligibility for Research, Evaluation and Technical Assistance (RETA) projects is open to all categories of proposers identified in the NSF Grant Proposal Guide. Any proposal to the MSP Program should be a single submission that includes support for all partners that are requesting funding from NSF. Eligibility for Innovation through Institutional Integration (I³) is limited to institutions of higher education (including two- and four-year colleges) located and accredited in the US, acting on behalf of their faculty members. *PI Limit: The PI of a proposal for any of the Partnership categories - Targeted, Institute, MSP-Start or Phase II -- must be a faculty member in a mathematics, science or engineering department in a higher education core partner. One or more co-Principal Investigators must be representative(s) from the K-12 core partner organization(s). The PI for an Innovation through Institutional Integration (I^3) proposal must be the university provost or equivalent, unless the proposal is exclusively for STEM educational or related research.

Expected Number of Awards:	36
Estimated Total Program Funding:	$40,000,000
Award Ceiling:	$2,500,000
Award Floor:	$100,000
CFDA Number(s):	47.076 -- Education and Human Resources
Cost Sharing or Matching Requirement:	No
Current Closing Date for Applications:	Mar 25, 2008

NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM)

This program makes grants to institutions of higher education to support scholarships for academically talented, financially needy students, enabling them to enter the workforce following completion of an associate, baccalaureate, or graduate level degree in science and engineering disciplines. Grantee institutions are responsible for selecting scholarship recipients, reporting demographic information about student scholars, and managing the S-STEM project at the institution. The program does not make scholarship awards directly to students; students should contact their institution's Office of Financial Aid for this and other scholarship opportunities. Link to Full Announcement: NSF Publication 07-524

Organization Limit: Proposals may only be submitted by the following: -Institutions of higher education (as defined in section 101 (a) of the Higher Education Act of 1965) in the United States and its territories that

grant associate, baccalaureate, or graduate degrees in the disciplines listed in section IV.C. are invited to submit proposals. PI Limit: The Principal Investigator must be a faculty member currently teaching within one of the S-STEM disciplines who can provide the leadership required to ensure the success of the project. Projects involving more than one department within an institution are eligible, but a single Principal Investigator must accept overall management responsibility. Other members of the S-STEM project management team may be listed as Co-Principal Investigators.

Expected Number of Awards:	130
Estimated Total Program Funding:	$70,000,000
Award Ceiling:	$600,000
Award Floor:	$100,000
CFDA Number(s):	47.076 -- Education and Human Resources
Cost Sharing or Matching Requirement:	No
Current Closing Date for Applications:	Aug 12, 2008

Science and Technology Centers (STC): Integrative Partnerships

The Science and Technology Centers (STC): Integrative Partnerships program supports innovative, potentially transformative, complex research and education projects that require large-scale, long-term awards. STCs conduct world-class research through partnerships among academic institutions, national laboratories, industrial organizations, and/or other public/private entities, and via international collaborations, as appropriate. They provide a means to undertake important investigations at the interfaces of disciplines and/or fresh approaches within disciplines. STC investments support the NSF vision of advancing discovery, innovation and education beyond the frontiers of current knowledge, and empowering future generations in science and engineering. Centers provide a rich environment for encouraging future scientists, engineers, and educators to take risks in pursuing discoveries and new knowledge. STCs foster excellence in education by integrating education and research, and by creating bonds between learning and inquiry so that discovery and creativity fully support the learning process. NSF expects STCs to demonstrate leadership in the involvement of groups traditionally underrepresented in science and engineering at all levels within the Center. To achieve their diversity objectives, STCs are expected to involve individuals from underrepresented groups as members of the Center faculty, and as students actively engaged in Center activities. STCs are strongly encouraged to form meaningful, substantive and long-term partnerships with minority-serving institutions, women's colleges and institutions serving students with disabilities, thereby providing formal connections with institutions that serve large populations of underrepresented students interested in STEM. Centers undertake activities that will facilitate knowledge transfer, i.e., the mutual exchange of scientific and technical information among the Center partners and others with the objective of disseminating and utilizing knowledge broadly in multiple sectors. To date, five competitions have been held to establish NSF Science and Technology Centers. The first two competitions, one in the late 1980's and one in the early 1990's, led to the establishment of 25 Science and Technology Centers, which are no longer funded as NSF centers. A third competition for Science and Technology Centers: Integrative Partnerships was held in 1999 and resulted in five new Centers. A fourth competition resulted in six new Centers in 2002. The fifth and most recent competition, in FY 2005, added six centers. Link to Full Announcement: NSF Publication 08-580

Organization Limit: Proposals may only be submitted by the following: - Preliminary proposals and invited full proposals may be submitted by U.S. academic institutions that have research and degree-granting education programs in any area of research supported by NSF. The lead institution is expected to develop multi-institutional partnerships or arrangements with other universities/colleges, national laboratories, research museums, private sector research laboratories, state and local government laboratories, and international collaborations that enable the Center to attain its strategic goals. Partner institutions invest intellectual resources in Center activities and work collaboratively with the lead institution and NSF to ensure integration of the research, education, broadening participation, and knowledge transfer activities of the Center and to attain the performance goals of the Center. The lead

institution has ultimate responsibility for planning, operating, and managing all Center activities, including institutional resources provided by the partners. NSF will not provide funds to non-U.S. partner institutions.

Expected Number of Awards:	7
Estimated Total Program Funding:	$25,000,000
Award Ceiling:	$5,000,000
Award Floor:	$1,500,000
Current Closing Date for Applications:	Apr 30, 2009

Advanced Learning Technologies (ALT) program

Through the Advanced Learning Technologies (ALT) program, the CISE and EHR Directorates of NSF support research that (1) enables radical improvements in learning through innovative computer and information technologies, and (2) advances research in computer science, information technology, learning, and cognitive science through the unique challenges posed by learning environments and learning technology platforms. Integrative research approaches that build across disciplines and establish tight linkages among theory, experiment, and design are strongly encouraged. Technology goals may include systems for tutoring or assessment, modeling and sensing of cognitive or emotional states, context awareness, natural language interfaces, collaboration, knowledge management, and non-traditional goals that redefine the roles of technology in learning. Educational foci for ALT projects must include an area of science, technology, engineering, or mathematics (STEM), or general cross-cutting skills directly relevant to STEM. Link to Full Announcement: NSF Publication 06-535

In response to this solicitation, an investigator may participate as PI or Co-PI in no more than one proposal. A PI on one proposal may not be a PI or Co-PI on any other proposal. A Co-PI on one proposal may not be a PI or Co-PI on any other proposal. If an individual is included, either as PI or Co-PI, on more than one proposal, it will be returned without review by NSF.

Expected Number of Awards:	10
Estimated Total Program Funding:	$2,800,000
Award Ceiling:	$200,000
Award Floor:	$100,000
Cost Sharing or Matching Requirement:	No
Current Closing Date for Applications:	Apr 25, 2008

Geoscience Education (GeoEd) Program

The goals of the Geoscience Education (GeoEd) Program are to:-improve the quality of geoscience education at all educational levels; -increase the number and competency of Earth and Space Science teachers at K-12 levels; -demonstrate the relevance of the geosciences by identifying and promoting traditional and non-traditional career opportunities in the field; -increase the number of students enrolling in geoscience courses and degree programs at all educational levels; -increase the number of students drawn from groups underrepresented in science, technology, engineering and mathematics (STEM) fields in geoscience courses and degree programs; and -increase the public's understanding of geoscience-related issues. The GeoEd Program considers proposals submitted under one of the two tracks described in this solicitation. Track 1 Pilot Projects: Proposals should describe a plan to initiate or pilot innovative geoscience education activities. Track 1 projects should integrate research and education. Proposals for projects that will make use of current geoscience research results and/or methods are sought, as are proposals that will promote the geosciences and geoscience careers as highly relevant to modern society. Projects that are informed by the results of current education-related research or will conduct new educational research within a geoscience education venue will be considered under this solicitation. Awards are intended to provide start-up or proof-of-concept funding to enable projects to reach a level of maturity that will allow them to compete for longer-term funding from other sources or become self-sustaining. All proposed projects should have strong evaluation and dissemination plans. Projects designed to recruit and retain students during the critical transition from high-school to college are highly appropriate for consideration by the GeoEd Program. Track 2 Integrative Collaborations: Proposals

should describe a plan to integrate geoscience research and education activities into existing Louis Stokes Alliances for Minority Participation (LSAMP), Alliances for Graduate Education and the Professoriate (AGEP), and/or Centers of Research Excellence in Science and Technology (CREST) projects. Track 2 proposals must provide documentation of collaboration between the proposed GeoEd project and the associated LSAMP, AGEP, and/or CREST project(s).The LSAMP program supports sustained and comprehensive projects designed to increase the number of students from populations underrepresented in science, technology, engineering, and mathematics (STEM) that earn doctoral degrees. The specific objectives of the AGEP program are to (1) develop and implement innovative models for recruiting, mentoring, and retaining minority students in STEM doctoral programs; and (2) develop effective strategies for identifying and supporting underrepresented minorities who want to pursue academic careers. The CREST program provides substantial support for research at minority-serving institutions across the United States. The main goal of CREST and its awardees is to build the research competitiveness of minority-serving institutions while increasing the recruitment and retention of individuals from diverse backgrounds in STEM fields. Link to Full Announcement: NSF Publication 05-609

Current Closing Date for Applications:	Nov 15, 2007
Archive Date:	
Funding Instrument Type:	Grant
Category of Funding Activity:	Science and Technology and other Research and Development
Category Explanation:	
Expected Number of Awards:	45
Estimated Total Program Funding:	$5,000,000
Award Ceiling:	$500,000
Award Floor:	$0
CFDA Number(s):	47.050 -- Geosciences
Cost Sharing or Matching Requirement:	No

Innovative Technology Experiences for Students and Teachers

The program responds to current concerns and projections about shortages of STEM professionals and information technology workers in the United States and seeks solutions to help ensure the breadth and depth of the STEM workforce. ITEST supports the development, implementation, testing and scale-up of models, as well as research studies to address these questions and to find solutions. There are a variety of possible approaches to improving the STEM workforce and to building students' capacity to participate in it. NSF seeks to expand the existing ITEST portfolio by addressing students at any age for grades kindergarten through high school and by including all areas of the STEM workforce, while retaining an emphasis on technology-related areas. This ITEST announcement extends the previous ITEST announcement by placing greater emphasis on capturing and establishing a reliable knowledge base about the dispositions toward and knowledge about STEM workforce skills among U.S. students. The previous awards by the ITEST program have established a strong foundation upon which to enlarge a scientific basis for educational programs in STEM education. Three types of projects are invited. Strategies projects will include the design, implementation, and evaluation of models for classroom, after-school, summer, virtual, and/or year-round learning experiences for students and/or teachers to encourage students' readiness for, and their interest and participation in, the STEM workforce. Scale-up projects would implement and test models about preparing students for information technology or the STEM workforce in a large-scale setting such as a state or national level based on evidence of demonstrated success. Studies projects are research projects to enrich understanding of issues related to enlarging the STEM workforce, including efficacy and effectiveness studies of intervention models,

longitudinal studies of efforts to engage students in the STEM areas, development of instruments to reliably and validly assess engagement, persistence, and other relevant constructs, or studies to identify predictors of student inclination to pursue STEM career trajectories. NSF is especially interested in projects that target students who are underserved and underrepresented in STEM ICT-intensive careers, including those residing in rural and economically disadvantaged communities. Innovation through Institutional Integration (I3) projects enable institutions to think and act strategically about the creative integration of NSF-funded awards, with particular emphasis on awards managed through programs in the Directorate for Education and Human Resources (EHR), but not limited to those awards. For Fiscal Year 2008, proposals are being solicited in six EHR programs that advance I3 goals: CREST, ITEST, MSP, Noyce, RDE, and TCUP. Link to Full Announcement: **NSF Publication 08-526**

*Organization Limit: Proposals may only be submitted by the following: - Only U.S. organizations located in the U.S. are eligible to apply; see the NSF Grant Proposal Guide (GPG) for further information. All organizations with an educational mission are eligible. Eligibility for Innovation through Institutional Integration is limited to institutions of higher education (including two- and four-year colleges) located and accredited in the US, acting on behalf of their faculty members. *PI Limit: The PI for an Innovation through Institutional Integration (I³) proposal must be the university provost or equivalent, unless the proposal is exclusively for STEM educational or related research.

Current Closing Date for Applications:	Apr 11, 2008
Archive Date:	
Funding Instrument Type:	Grant
Category of Funding Activity:	Science and Technology and other Research and Development
Category Explanation:	
Expected Number of Awards:	36
Estimated Total Program Funding:	$32,000,000
Award Ceiling:	$5,000,000
Award Floor:	$300,000
CFDA Number(s):	47.076 -- Education and Human Resources
Cost Sharing or Matching Requirement:	No

Alliances for Broadening Participation in STEM

The Alliances for Broadening Participation in STEM (ABP) solicitation includes the Louis Stokes Alliances for Minority Participation (LSAMP) program, Bridge to the Doctorate (BD) Activity, and the Alliances for Graduate Education and the Professoriate (AGEP) program. This portfolio seeks to increase the number of students successfully completing quality degree programs in science, technology, engineering and mathematics (STEM). Particular emphasis is placed on transforming STEM education through innovative academic strategies and experiences in support of groups that historically have been underrepresented in STEM disciplines: African Americans, Alaskan Natives, Native Americans, Hispanic Americans and Native Pacific Islanders. Managed synergistically, the ABP cluster enables seamless transitions from the STEM baccalaureate to attainment of the doctorate and entry to the STEM professoriate. ABP support begins at the baccalaureate level through the LSAMP program. LSAMP emphasizes development of broad based regional and national alliances of academic institutions, school districts, state and local governments, and the private sector to increase the diversity and quality of the STEM workforce. Eligible LSAMP undergraduate students may receive continued support for up to two additional years of STEM graduate study through the Bridge to the Doctorate (BD) Activity. The Bridge to the Doctorate provides

significant financial support for matriculating candidates in STEM doctoral programs at eligible alliance sites. Alliances for Graduate Education and the Professoriate (AGEP) furthers the graduate education of underrepresented students through the doctorate level, preparing them for fulfilling opportunities and productive careers as STEM faculty and research professionals. AGEP also supports the transformation of institutional culture to attract and retain STEM doctoral students into the professorate. The LSAMP program also supports education research projects focused on STEM baccalaureate degree attainment. Link to Full Announcement: **NSF Publication 08-545**

Organization Limit: Proposals may only be submitted by the following: -Universities and Colleges: Universities and two- and four-year colleges (including community colleges) located and accredited in the US, acting on behalf of their faculty members. Such organizations also are referred to as academic institutions. *PI Limit: AGEP - Because AGEP is centered on sustainable institutional changes in graduate education, the Provost or Graduate Dean of the lead institution should serve as the Principal Investigator. A full explanation should be provided for a PI designation in variance with this requirement. Co-Principal Investigators from partner institutions may be designated as appropriate for the project. LSAMP - To promote institutional commitments to increase the quality and quantity of underrepresented minorities in STEM disciplines at the undergraduate level, the President or Provost of the lead institution should serve as the Principal Investigator. A full explanation should be provided for a PI designation in variance with this requirement. Co-Principal investigators from partner institutions may be designated as appropriate for the project.

Current Closing Date for Applications:	May 15, 2008 Ltr of Intent -req: 05/30/08 and Last Fri in May,annually: AGEP Full Props: 05/15/08, 03/06/09 and First Fri. in March, annually: BD 06/27/08 and Last Fri. in June, annually AGEP 10/10/08 LSAMP, LSAMP Educ Research Projects
Archive Date:	
Funding Instrument Type:	Grant
Category of Funding Activity:	Science and Technology and other Research and Development
Category Explanation:	
Expected Number of Awards:	32
Estimated Total Program Funding:	$30,000,000
Award Ceiling:	$5,000,000
Award Floor:	$100,000
CFDA Number(s):	47.076 -- Education and Human Resources
Cost Sharing or Matching Requirement:	No

Research Experiences for Teachers (RET) in Engineering

The Directorate for Engineering (ENG), Research Experiences for Teachers (RET) in engineering program supports the active involvement of K-12 teachers and community college faculty in engineering research in order to bring knowledge of engineering and technological innovation into their classrooms. The goal is to help build long-term collaborative partnerships between K-12 science, technology, engineering, and mathematics (STEM) teachers, community college faculty, and the NSF university research community by involving the teachers in engineering research and helping them translate their research experiences and new knowledge of engineering into classroom activities. Partnerships with inner city schools or other high need schools are especially encouraged, as is participation by underrepresented minorities, women, and persons with disabilities. This announcement features two mechanisms for support of in-service and pre-service K-12 teachers and/or community college faculty: RET supplements to ongoing ENG awards and new RET Site awards. RET supplements may be included

in proposals for new or renewed NSF Directorate for Engineering (ENG) grants or as supplements to ongoing NSF ENG funded projects. RET Sites are based on independent proposals from engineering departments, schools or colleges to initiate and conduct research participation projects for a number of K-12 teachers and/or community college faculty. Link to Full Announcement: **NSF Publication 07-557**

Organization Limit: Proposals may only be submitted by the following: -Universities and colleges: U.S. universities and two- and four-year colleges (including community colleges) located and accredited in the U.S. Such organizations also are referred to as academic institutions. *PI Limit: The principal investigator of an ENG RET Site proposal must have a faculty appointment within a College/Department of Engineering or a College/Department of Engineering Technology within the submitting U.S. academic institution.

Current Closing Date for Applications:	Nov 17, 2008 Full Proposal Deadline(s): Third Monday in November, Annually
Archive Date:	
Funding Instrument Type:	Grant
Category of Funding Activity:	Science and Technology and other Research and Development
Category Explanation:	
Expected Number of Awards:	5
Estimated Total Program Funding:	$500,000
Award Ceiling:	
Award Floor:	
CFDA Number(s):	47.041 -- Engineering Grants
Cost Sharing or Matching Requirement:	No

Informal Science Education

The ISE program invests in projects that develop and implement informal learning experiences designed to increase interest, engagement, and understanding of science, technology, engineering, and mathematics (STEM) by individuals of all ages and backgrounds, as well as projects that advance knowledge and practice of informal science education. Projects may target either public audiences or professionals whose work directly affects informal STEM learning. ISE projects are expected to demonstrate strategic impact, innovation, and collaboration. Link to Full Announcement: NSF Publication 08-547

Current Closing Date for Applications:	Jun 19, 2008 Letter of Intent (required) (due by 5 p.m. proposer's local time): March 20, 2008 September 18, 2008 Full Proposal June 19, 2008 December 18, 2008
Archive Date:	
Funding Instrument Type:	Grant
Category of Funding Activity:	Science and Technology and other Research and Development
Category Explanation:	
Expected Number of Awards:	50
Estimated Total Program Funding:	$25,000,000
Award Ceiling:	$5,000,000
Award Floor:	
CFDA Number(s):	47.076 -- Education and Human Resources

Cost Sharing or Matching Requirement: No

Research on Gender in Science and Engineering FY 2008

The program seeks to broaden the participation of girls and women in all fields of science, technology, engineering, and mathematics (STEM) education by supporting research, the diffusion of research-based innovations, and extension services in education that will lead to a larger and more diverse domestic science and engineering workforce. Typical projects will contribute to the knowledge base addressing gender-related differences in learning and in the educational experiences that affect student interest, performance, and choice of careers; how pedagogical approaches and teaching styles, curriculum, student services, and institutional culture contribute to causing or closing gender gaps that persist in certain fields. Projects will communicate and apply findings, evaluation results, and proven good practices and products to a wider community. The Research on Gender in Science and Engineering program has been funding these objectives since 1993, under the prior names "Program for Women and Girls" (PWG), "Program for Gender Equity in Science, Mathematics, Engineering and Technology" (PGE), and "Gender Diversity in STEM Education" (GDSE).The program does not currently fund intervention or education projects that directly serve students as their primary purpose. Research projects may involve students as subjects only if the intervention is an integral part of gathering data and if the findings from the intervention would substantially answer the research questions posed within the context of theory and hypotheses. There should be meaningful control groups also included in the design. Those wishing to undertake direct intervention or education service projects are encouraged to search the NSF web site and other publications for appropriate funding programs. Please see section IX below for suggested programs to consult. Link to Full Announcement: NSF Publication 07-578

Current Closing Date for Applications:	Apr 07, 2008 Prelim Proposals (required): 11/05/2007 Research Proposals 01/07/2008 Extension Services Proposals Full Proposals: 02/25/2008 Research Proposals 04/07/2008 Extension Services Proposals 04/07/2008 Diffusion of Research-Based Innovation Proposals
Archive Date:	
Funding Instrument Type:	Grant
Category of Funding Activity:	Science and Technology and other Research and Development
Category Explanation:	
Expected Number of Awards:	22
Estimated Total Program Funding:	$5,000,000
Award Ceiling:	
Award Floor:	
CFDA Number(s):	47.076 -- Education and Human Resources
Cost Sharing or Matching Requirement:	No

Science, Technology, Engineering, and Mathematics Talent Expansion Program

The Science, Technology, Engineering, and Mathematics Talent Expansion Program (STEP) seeks to increase the number of students (U.S. citizens or permanent residents) receiving associate or baccalaureate degrees in established or emerging fields within science, technology, engineering, and mathematics (STEM). Type 1 proposals are solicited that provide for full implementation efforts at academic institutions. Type 2 proposals are solicited that support educational research projects on associate or baccalaureate degree attainment in STEM. Link to Full Announcement: NSF Publication 08-569

Organization Limit: Proposals may only be submitted by the following: - Type 1 proposals are invited from academic institutions in the United States and its territories, from consortia thereof, or from nonprofit organizations that have established consortia among such academic institutions. The academic institutions must offer either associate degrees or baccalaureate degrees in science, technology, engineering and/or mathematics (STEM). Associate degree-granting institutions with a demonstrated record of articulation to STEM baccalaureate programs need not necessarily grant associate degrees in STEM fields in order to be eligible for this program. Projects may involve a single institution, collaboration with business and industrial partners, or collaboration among several institutions. For example, projects may include collaborative efforts that improve the transition of students among the collaborating institutions, such as transfer between two- and four-year institutions. Type 2 proposals are invited from any individual or organization eligible to submit proposals to the NSF.

Current Closing Date for Applications:	Sep 30, 2008 Letter of Intent (optional) August 19, 2008 August 18, 2009 August 17, 2010 Full Proposal Deadline(s): September 30, 2008 September 29, 2009 September 28, 2010
Archive Date:	
Funding Instrument Type:	Grant
Category of Funding Activity:	Science and Technology and other Research and Development
Category Explanation:	
Expected Number of Awards:	20
Estimated Total Program Funding:	$26,000,000
Award Ceiling:	
Award Floor:	
CFDA Number(s):	47.076 -- Education and Human Resources
Cost Sharing or Matching Requirement:	No

K-12 Competitive Grants Opportunity

The National Aeronautics and Space Administration (NASA) Office of Education solicits proposals for NASA K-12 Competitive Grants (K12CG). The K12CG effort will seek innovate approaches to using NASA-themed content in support of secondary level teaching and learning, with a particular emphasis on high school education. Each funded proposal is expected to leverage NASA's unique contributions in science, technology, engineering, and mathematics (STEM) to enhance students' academic experiences and/or to improve educators' abilities to engage and stimulate their students. Proposed work must be grounded in education research and/or best practices, and incorporate formative, summative, and other evaluations, as appropriate. Proposals will be accepted from U.S. public secondary schools, school districts, state-based education leadership, and not-for-profit education organizations that support secondary education. Universities, industry, education-related companies, and other institutions may apply through partnership with the lead organization. NASA Education will use a two-step process for reviewing and selecting proposals. Proposers will submit a short Notice of Intent and Preliminary Proposal (NOI/PP) that briefly describes the work to be performed, NASA content to be featured, audiences to be reached, need, innovative approaches to be employed, estimated costs, and summary of

evidence supporting the methods, techniques, and tools to be used. NOI/PPs will be reviewed internally by the NASA Office of Education and the NASA Mission Directorates, and the authors of the most promising ideas will be asked to submit full proposals. The NOI/PPs will be due on August 22, 2008. Authors selected to develop and submit full proposals will be notified by September 22, 2008, with final proposals due on October 27, 2008. It is anticipated that approximately 6-8 awards, ranging from $750K – 1.5M total, for a two-year period of performance may be made under this NASA Research Announcement. The K12CG NRA is available on the NASA Headquarters solicitations website: http://www.nspires.nasaprs.com. Link to Full Announcement

The K12CG NRA document

Proposers must be affiliated with an institution at nspires.nasaprs.com/ and, in general, NASA provides funding only to US institutions. Organizations outside the U.S. that propose on the basis of a policy of no-exchange-of-funds; consult Appendix B Section (l) of the guidebook for proposers (http://www.hq.nasa.gov/office/procurement/nraguidebook/) for specific details. Some NRAs may be issued jointly with a non-U.S. organization, e.g., those concerning guest observing programs for jointly sponsored space science programs that will contain additional special guidelines for non-U.S. participants. Also ref. Sections 2.3.10(c)(vii) of the guidebook for proposers for special instructions for proposals from non-U.S. organizations that involve U.S. personnel for whom NASA support is requested.

Current Closing Date for Applications:	Oct 27, 2008
Archive Date:	Nov 26, 2008
Funding Instrument Type:	Cooperative Agreement Grant
Category of Funding Activity:	Science and Technology and other Research and Development
Category Explanation:	
Expected Number of Awards:	
Estimated Total Program Funding:	
Award Ceiling:	
Award Floor:	
CFDA Number(s):	00.000 -- Not Elsewhere Classified
Cost Sharing or Matching Requirement:	No

The Presidential Women's Justice & Empowerment Initiative

The purpose of this Annual Program Statement (APS) is to solicit applications for funding. The United States Government, through USAID/Washington and in close collaboration with USAID/Cotonou, USAID/Nairobi, USAID/Pretoria, and USAID/Lusaka, is seeking full applications from prospective partners to implement activities in support of creative and timely responses to the USAID-related components of the Presidential Women's Justice and Empowerment Initiative (WJEI).

Registered U.S. and non-U.S. non-governmental organizations, non-profit organizations, and for-profit organizations willing to forego profit.

Current Closing Date for Applications:	Jul 23, 2008 July 23, 2008, 5pm EST: Final Closing Date. August 23, 2007, 5pm EST: First review of applications received by.
Archive Date:	Sep 22, 2008
Funding Instrument Type:	Cooperative Agreement

Category of Funding Activity:	Other (see text field entitled "Explanation of Other Category of Funding Activity" for clarification)
Category Explanation:	Women-In-Development
Expected Number of Awards:	
Estimated Total Program Funding:	
Award Ceiling:	$12,415,000
Award Floor:	$0
CFDA Number(s):	98.001 -- USAID Foreign Assistance for Programs Overseas
Cost Sharing or Matching Requirement:	No

Email alert service called "National Science Foundation Update." National Science Foundation Update includes subscription options for all of the document types that were available in MyNSF, and also allows you to subscribe to new content categories, such as Images and Videos, Events, and Upcoming Due Dates for Funding Opportunities. You can subscribe to National Science Foundation Update at http://service.govdelivery.com/service/multi_subscribe.html?code=USNSF&custom_id=823.

Opening Opportunities for Girls in Science, Technology, Engineering, and Math (STEM)

There are many projects devoted to increasing the number of girls interested in STEM across the country, and the premise of the National Girls Collaborative Project (NGCP) is that these programs could be more effective if they worked together.

Often, individuals working on one "girls in STEM" project are unaware of similar projects nearby. The goal of the NGCP is to facilitate collaboration among projects so that they can share resources, work together, and learn from one another. A big part of the National Girls Collaborative Project is the creation of a Program Directory of these girl-serving projects. You can **find the Program Directory here**.

The Program Directory allows organizations interested in creating more opportunities for girls in STEM to register and learn about similar organizations in their area. Another big part of the NGCP is the mini-grant program. NGCP will make $1000 mini-grants available to collaborations of 2 or more participating programs who apply through the Program Directory.

For example, if one organization has meeting space with computers available, and another organization has mentors and girls available, the two organizations both register in the program directory and then apply for a $1000 mini-grant to help pay for the costs of their joint event.

The NGCP is now accepting applications for mini-grants! Click here for more information on mini-grants.

Click here for a list of mini-grants awarded from September, 2007 - May, 2008.

AAUW Fellowships and Grants Program Information

http://www.aauw.org/education/fga/fellowships_grants/index.cfm

One of the world's largest sources of funding exclusively for graduate women, the AAUW Educational Foundation supports aspiring scholars around the globe, teachers and activists in local communities, women at critical stages of their careers, and those pursuing professions where women are underrepresented.

▸▸Fellowships and grants changes for 2009-10

PLEASE NOTE THAT AAUW MEMBERS MAY NOW APPLY FOR ALL FELLOWSHIP AND GRANT OPPORTUNITIES.

1. **International Fellowships**
   To ensure that fellows in the master's degree programs return to their home countries with full academic credentials, AAUW will award up to 6 renewable International Fellowships annually.

2. **American Fellowships**
   All dissertation fellowships will now be managed within the American Fellowships (AF) program. The only necessary change was a shift of the engineering fellowships to AF from Selected Professions, which also should increase visibility for these STEM fellowships.

3. **STEM encouragement**
   With recognition of the underrepresentation of women in STEM, a larger proportion of American Fellowships will be awarded for STEM studies in order to increase the incentives for women to pursue these underrepresented fields.

The National Girls Collaborative Project is supported by a grant from the National Science Foundation, Research on Gender in Science and Engineering Award HRD-0631766.

Chrysler Foundation

The Chrysler Foundation awarded a $50,000 grant to support "Girls Go Tech! The STEM Experience." This program provides hands-on learning and allows girls to discover careers in science, technology, engineering, and math. Girls also connect with other girls and successful women professionals, including members of the Society of Women Engineers, who help them take action toward career paths that prepare them for the real challenges of today and tomorrow.

Toshiba America Foundation

Organization: The Toshiba America Foundation (TAF)
Grant Program(s): The TAF provides grants for K–6 teachers of up to $1,000 (offered each fall). Grades 7–12 teachers may apply for grants up to $5,000 at any time during the calendar year. Grant requests of more than $5,000 are reviewed twice a year.
URL: www.taf.toshiba.com
Profile: The TAF's mission is to promote quality science and mathematics education in U.S. schools. Grants are made for K–12 programs and activities that improve teaching and learning in science and mathematics. The foundation focuses its grant making on inquiry-based projects designed by individual teachers and small teams for use in the classroom.
Past Recipient(s): Houston's Spring Branch (TX) Independent School District received a special grant of $96,000 from the TAF during the 2006–07 school year, when the district welcomed nearly 500 students who arrived in the aftermath of Hurricanes Katrina and Rita. With the grant, the district was able to provide a host of services for those students and their families.

The Wallace Foundation
Grant program(s): Leadership for Learning
URL: www.wallacefoundation.org
Profile: As one of the largest private nonprofit supporters of public education, Wallace has invested nearly $530 million over the past 16 years in school improvement efforts. Since 2000, the foundation has worked to advance student achievement by improving school leadership. Wallace supports 24 states—and scores of districts within those states—in developing and testing
closely coordinated approaches for the training and support of education leaders so that they are capable of improving student performance.
Past Recipient(s): Eight elementary schools in Kentucky's Jefferson County, the state's Wallace-funded district, have School Administration Managers. Following a year-long planning process, a new statewide leadership academy is being launched. The Jefferson County district will be the primary developer of the academy with collaboration from other entities. The district is also developing new leadership tools and training curricula. Over the three-year funding period, schools throughout the state will be led by principals who have been trained to establish cultures of high expectations for all students; are able to use data and other means to influence decision-making about the quality of teaching and learning and to measure progress; can delegate leadership to others in the school; and can focus attention and resources on improving instruction and learning.

Gates Foundation

URL: www.gatesfoundation.org
Profile: The foundation has invested more than $1.5 billion in the creation of high-quality, high-performing schools and systems, supporting more than 1,800 schools.

The McArthur Foundation

Digital Media and Learning

The MacArthur Foundation launched its five-year, $50 million digital media and learning initiative in 2006 to help determine how digital technologies are changing the way young people learn, play, socialize, and participate in civic life. Answers are critical to developing educational and other social institutions that can meet the needs of this and future generations. The initiative is both marshaling what is already known about the field and seeding innovation for continued growth.

On this website you can find:

- information about ongoing projects and emerging research;
- an innovative "knowledge network" of leading experts in the field;
- testimonies from young people about how digital technologies are changing their lives; and
- a link to the *Spotlight* blog, where visitors can engage with initiative grantees about their work.

Michael and Susan Dell Foundation
http://www.msdf.org/Programs/Urban_Education.aspx

Education-related grants make up about one-third of our giving. Globally, we have committed almost $250 million to improve student performance and increase access to education so that all children have the opportunity to achieve their dreams.

In the USA we are working to close the achievement gap by supporting programs to improve large urban school districts in cities nationwide. We strongly emphasize the use of performance management as a leadership culture and data system to measure and share progress indicators, so that early attention can redirect lagging students toward success.

RGK Foundation

Funds to foster girls' and minorities' interest in math and science

http://www.rgkfoundation.org/guidelines.php

RGK Foundation awards grants in the broad areas of **Education**, **Community**, and **Medicine/Health**. The Foundation's primary interests within **Education** include programs that focus on formal K-12 education (particularly mathematics, science and reading), teacher development, literacy, and higher education.

Within **Community**, the Foundation supports a broad range of human services, community improvement, abuse prevention, and youth development programs. Human service programs of particular interest to the Foundation include children and family services, early childhood development, and parenting education. The Foundation supports a variety of Community Improvement programs including those that enhance non-profit management and promote philanthropy and voluntarism. Youth development programs supported by the Foundation typically include after-school educational enrichment programs that supplement and enhance formal education systems to increase the chances for successful outcomes in school and life. The Foundation is also interested in programs that attract female and minority students into the fields of mathematics, science, and technology.

The Foundation's current interests in the area of **Medicine/Health** include programs that promote the health and well-being of children, programs that promote access to health services, and Foundation-initiated programs focusing on ALS.

Although there are no geographic restrictions to the Foundation's grant making program, the Foundation no longer accepts unsolicited requests for international agencies or programs. While the Foundation occasionally awards grants for operating expenses, capital campaigns, endowments, and international projects, such grants are infrequent and usually initiated by the Foundation. Multiyear grants are rare; most grants are awarded for a one-year period. Click here to view listing of recent grants awarded by the Foundation.

How to Apply

RGK Foundation no longer accepts unsolicited grant proposals. All applicants must complete an electronic Letter of Inquiry from the Web site as the first step. RGK Foundation will entertain one electronic Letter of Inquiry (LOI) per organization in a twelve-month period. Organizations that submit unsolicited proposals will receive notification directing them to submit an electronic Letter of Inquiry via the Web site. After reading the remaining application guidelines, you may click on the link at the bottom of the page to begin.

Eligibility

Grants are made only to nonprofit organizations certified as tax exempt under Sections 501(c)(3) or 170(c) of the Internal Revenue Code and are classified as "not a private foundation" under Section 509(a). Hospitals, educational institutions, and governmental institutions meeting these requirements are eligible to apply. Organizations that have completed and filed Form 1023 but not yet received an IRS determination letter are not eligible to apply. The Foundation does not make grants or loans to individuals.

As a general practice, RGK Foundation refrains from funding

- Annual funds, galas, or other special-event fundraising activities
- Capital campaigns/renovation projects
- Debt reduction
- Emergency or disaster relief efforts

- Dissertations or student research projects
- Indirect/administrative costs
- Sectarian religious activities, political lobbying, or legislative activities
- Institutions that discriminate on the basis of race, creed, gender, or sexual orientation in policy or in practice
- Loans, scholarships, fellowships, or grants to individuals
- Unsolicited requests for international organizations or programs

Unsolicited requests for ALS research projects

Deadlines

There is no deadline for submitting an electronic Letter of Inquiry. Foundation staff reviews electronic Letters of Inquiry on an ongoing basis and typically responds within two days, although we ask that you allow up to two weeks for a response. The Foundation will send an e-mail message either declining your request or inviting you to submit a formal application packet for further consideration. If you are invited to submit an application packet, your message will include detailed instructions on how to apply. Please allow up to four months for proposals to be reviewed by staff. In some cases, a phone conference or site visit may be scheduled as part of the review process. The Grants Committee typically meets three times each year to consider requests over $100,000 that have been recommended by staff for review. You will be notified if your proposal will be considered at one of the Grants Committee meetings or will take longer than four months to review.

Grant Committee Dates for 2008

February 8, 2008

June 6, 2008

September 5, 2008

NSF ACTIVE GRANT PROGRAMS

PROGRAM GUIDELINES

08-585 Solicitation

DUE DATES

Letter of Intent Deadline Date: October 17, 2008
Full Proposal Deadline Date: November 21, 2008

SYNOPSIS

The Division of Research on Learning in Formal and Informal Settings (DRL) in the Directorate for Education and Human Resources (EHR) of the National Science Foundation (NSF) supports basic and applied research and evaluation that enhance science, technology, engineering, and mathematics (STEM) learning and teaching. The Research and Evaluation on Education in Science and Engineering (REESE) program aims at advancing research at the frontiers of STEM learning, education, and evaluation, and at providing the foundational knowledge necessary to improve STEM teaching and learning at all educational levels and in all

settings. This solicitation calls for three types of proposals--Knowledge Diffusion, Empirical Research, and Large Empirical Research.

The goals of the REESE program are: (1) to catalyze discovery and innovation at the frontiers of STEM learning, education, and evaluation; (2) to stimulate the field to produce high quality and robust research results through the progress of theory, method, and human resources; and (3) to help coordinate and transform advances in education, learning research, and evaluation. REESE pursues its mission by developing an interdisciplinary research portfolio focusing on core scientific questions about STEM learning in current and emerging learning contexts, both formal and informal, from childhood through adulthood, and from before school through to graduate school and beyond into the workforce. REESE places particular importance upon the involvement of young investigators in the projects, at doctoral, postdoctoral, and early career stages, as well as the involvement of STEM disciplinary experts. In addition, research questions related to educational research methodology and evaluation are central to the REESE activity.

RELATED URLS

An opportunity to request support for research and evaluation projects focused on graduate education.

Abstracts of Recent Awards Made Through This Program

News

Research on Learning in Formal and Informal Settings

Innovative Technology Experiences for Students and Teachers (ITEST)

CONTACTS

PROGRAM GUIDELINES

08-526 Solicitation

SYNOPSIS

What does it take to effectively interest and prepare students as participants in the science, technology, engineering, and mathematics (STEM) workforce of the future? What are the knowledge, skills, and dispositions that students need in order to participate productively in the changing workforce in STEM, particularly in STEM-related information and communication technology (ICT) areas? How do they acquire them? What will ensure that the nation has the capacity it needs to participate in transformative, innovative STEM advances? How can we assess and predict inclination to participate in the STEM fields and how can we measure and study impact of various models to encourage that participation?

The program responds to current concerns and projections about shortages of STEM professionals and information technology workers in the United States and seeks solutions to help ensure the breadth and depth of the STEM workforce. ITEST supports the development, implementation, testing and scale-up of models, as well as research studies to address these questions and to find solutions. There are a variety of possible approaches to improving the STEM workforce and to building students' capacity to participate in it. NSF seeks to expand the existing ITEST portfolio by addressing students at any age for grades kindergarten

through high school and by including all areas of the STEM workforce, while retaining an emphasis on technology-related areas.

This ITEST announcement extends the previous ITEST announcement by placing greater emphasis on capturing and establishing a reliable knowledge base about the dispositions toward and knowledge about STEM workforce skills among U.S. students. The previous awards by the ITEST program have established a strong foundation upon which to enlarge a scientific basis for educational programs in STEM education.

Three types of projects are invited. ***Strategies*** projects will include the design, implementation, and evaluation of models for classroom, after-school, summer, virtual, and/or year-round learning experiences for students and/or teachers to encourage students' readiness for, and their interest and participation in, the STEM workforce. ***Scale-up*** **projects** would implement and test models about preparing students for information technology or the STEM workforce in a large-scale setting such as a state or national level based on evidence of demonstrated success. ***Studies*** projects are research projects to enrich understanding of issues related to enlarging the STEM workforce, including efficacy and effectiveness studies of intervention models, longitudinal studies of efforts to engage students in the STEM areas, development of instruments to reliably and validly assess engagement, persistence, and other relevant constructs, or studies to identify predictors of student inclination to pursue STEM career trajectories. NSF is especially interested in projects that target students who are underserved and underrepresented in STEM ICT-intensive careers, including those residing in rural and economically disadvantaged communities.

Innovation through Institutional Integration (I^3) projects enable institutions to think and act strategically about the creative integration of NSF-funded awards, with particular emphasis on awards managed through programs in the Directorate for Education and Human Resources (EHR), but not limited to those awards. For Fiscal Year 2008, proposals are being solicited in six EHR programs that advance I^3 goals: CREST, ITEST, MSP, Noyce, RDE, and TCUP.

EDUCATIONAL OPPORTUNITY

This program provides educational opportunities for K-12 Educators. This program provides indirect funding for students at this level or focuses on educational developments for this group such as curricula development, training or retention. To inquire about possible funding opportunities not directly from NSF, please look at the active awards for this program.

RELATED URLS

Innovation for Institutional Integration, Frequently Asked Questions

Abstracts of Recent Awards Made Through This Program

News

51 TOTAL; OTHERS AT: http://www.nsf.gov/funding/ (KEYWORD: STEM)