

Weekly NSF Funding Opportunities and News Items

March 14, 2008

- **Innovative Technology Experiences for Students and Teachers (ITEST) NSF 08-526**

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? Full announcement: <http://www.nsf.gov/pubs/2008/nsf08526/nsf08526.htm>
- **Research in Disabilities Education (RDE) (NSF 08-527)**

The RDE program seeks to broaden the participation and achievement of people with disabilities in all fields of science, technology, engineering, and mathematics (STEM) education and associated professional careers. The RDE program has been funding this objective since 1994 under the prior name "Program for Persons with Disabilities." Particular emphasis is placed on increasing the number of students with disabilities successfully completing quality associate, undergraduate and and graduate degrees in STEM and increasing the number of students with disabilities entering the professional STEM workforce. Full announcement: <http://www.nsf.gov/pubs/2008/nsf08527/nsf08527.htm>
- **Domestic Nuclear Detection Office/National Science Foundation Academic Research Initiative (ARI) (NSF 08-534)**

In FY 2008, the Domestic Nuclear Detection Office (DNDO) within the Department of Homeland Security (DHS) will invest, in partnership with the National Science Foundation (NSF), in frontier research at academic institutions. This transformational research effort will be focused on detection systems, individual sensors or other research that is potentially relevant to the detection of nuclear weapons, special nuclear material, radiation dispersal devices and related threats. The joint DNDO/NSF effort, in coordination with the efforts of other agencies, seeks to advance fundamental knowledge in new technologies for the detection of nuclear threats and to develop intellectual capacity in fields relevant to long-term advances in nuclear detection capability. Full announcement: <http://www.nsf.gov/pubs/2008/nsf08534/nsf08534.htm>
- **Math and Science Partnership (MSP) (NSF 08-525)**

The solicitation continues two major Partnership components of the MSP program - the Targeted Partnerships and the Institute Partnerships – Teacher Institutes for the 21st Century. Targeted Partnerships seek to improve student achievement in a specific grade range and/or with a specific disciplinary focus in mathematics or the sciences while Institute Partnerships are designed especially to meet national needs for teachers who have deep knowledge of disciplinary content and are school-based intellectual leaders in mathematics and science. Full announcement: <http://www.nsf.gov/pubs/2008/nsf08525/nsf08525.htm>
- **Robert Noyce Teacher Scholarship Program NSF 08-532**

In furtherance of the President's Management Agenda, NSF has identified programs that will offer proposers the option to utilize Grants.gov to prepare and submit proposals, or

will require that proposers utilize Grants.gov to prepare and submit proposals. Grants.gov provides a single Government-wide portal for finding and applying for Federal grants online.

Full announcement: <http://www.nsf.gov/pubs/2008/nsf08532/nsf08532.htm>

- **Centers of Research Excellence in Science and Technology (CREST) and HBCU Research Infrastructure for Science and Engineering (RISE) (NSF 08-528)**

The Centers of Research Excellence in Science and Technology (CREST) program makes resources available to enhance the research capabilities of minority-serving institutions through the establishment of centers that effectively integrate education and research. CREST promotes the development of new knowledge, enhancements of the research productivity of individual faculty, and an expanded presence of students historically underrepresented in STEM disciplines. Awards are offered as new centers, supplements to existing centers, proposals for the CREST Historically Black Colleges and Universities Research Infrastructure for Science and Engineering (HBCU-RISE) initiative, or supplements to CREST/HBCU-RISE-eligible awardees for diversity collaboration in projects co-funded with NSF's Small Business Innovation Research and Small Business Technology Transfer (SBIR/STTR) programs, which are administered by NSF's Directorate for Engineering.

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.

Full announcement: <http://www.nsf.gov/pubs/2008/nsf08528/nsf08528.htm>

- **Research in Disabilities Education (RDE) (NSF 08-527)**

The RDE program seeks to broaden the participation and achievement of people with disabilities in all fields of science, technology, engineering, and mathematics (STEM) education and associated professional careers. The RDE program has been funding this objective since 1994 under the prior name "Program for Persons with Disabilities." Particular emphasis is placed on increasing the number of students with disabilities successfully completing quality associate, undergraduate and graduate degrees in STEM and increasing the number of students with disabilities entering the professional STEM workforce. This goal is addressed by three RDE program tracks: Regional Alliances for Persons with Disabilities in STEM Education (RDE-RAD); Focused Research Initiatives (RDE-FRI); and Demonstration, Enrichment, and Information Dissemination projects (RDE-DEI).

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Full announcement: <http://www.nsf.gov/pubs/2008/nsf08527/nsf08527.htm>

News and Articles of Interest

- **New Window Opens on the Secret Life of Microbes: Scientists Develop First Microbial Profiles of Ecosystems**

Microbial profiles serve as the ecological version of the human genome project

http://www.nsf.gov/news/news_summ.jsp?cntn_id=111275&govDel=USNSF_51

- **"Telework" Benefits Employers, Employees and the Environment**
NSF teleworkers spare the environment more than 1 million pounds of emissions annually.
http://www.nsf.gov/news/news_summ.jsp?cntn_id=111252&govDel=USNSF_51
- **High-School Scientists Decode DNA Sequence, Present Findings**
New Jersey students publish their findings, present their work at the National Science Foundation
http://www.nsf.gov/news/news_summ.jsp?cntn_id=111243&govDel=USNSF_55
- **An Overview of Science, Engineering, and Health Graduates: 2006**
http://www.nsf.gov/statistics/infbrief/nsf08304/?govDel=USNSF_141