Nanoelectronics for 2020 and Beyond (NEB)
Funding Agency: National Science Foundation
Funding #: 10-614
Due: 1/19/2011
Link: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503577

This program seeks to advance the forefront of computation, information processing, sensor technologies, and communications infrastructure beyond the physical and conceptual limitations of current technologies. The program is intended to support proposals by interdisciplinary teams of investigators committed to exploring innovative research concepts in nanoelectronics involving fundamental challenges from novel materials, chemistry, and logic devices, to circuit designs and systems architectures, algorithms, and perhaps entirely new paradigms of computation, sensing, and processing of information. Proposals may also address additional challenges arising from increasing functionality through heterogeneous integration of novel devices and technologies. Proposals should discuss effective ways in which education of the workforce and broadening participation are integrated within the proposed research activities. Proposals must involve interdisciplinary collaborations by three or more investigators and address aspects of at least two of the research themes: 1. Exploring New Chemistries and Materials for Nanoelectronics 2. Exploring Alternative State Variables and Heterogeneous Integration for Nanoelectronic Devices and Systems 3. Exploring Novel Paradigms of Computing.

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GeoMechanics and GeoTechnical Systems (GGS)
Funding Agency: National Science Foundation
Funding #: PD 10-1634
Due: 10/1/2010
Link: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13350

The GEOMM program supports fundamental research on the mechanics and engineering properties of geologic materials including the mechanical properties of soil and rock, mechanically stabilized and biologically modified soil, and on natural processes, such as hydraulic, biological and thermal, that affect the behavior of these materials. Research on soil-structure interaction and liquefaction are also funded by the program. Support is provided for theoretical studies, constitutive and numerical modeling, laboratory, centrifuge, and field testing.

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Transforming STEM Learning (TSL)
Funding Agency: National Science Foundation
Funding #: 10-602
Due: 3/11/2011
Link: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503571

TSL combines interests and resources of separate programs in the Division of Research on Learning in Formal and Informal Settings (DRL) to explore the opportunities and challenges implied by innovative visions of the future for STEM learning. The TSL program invites interdisciplinary teams of STEM content
specialists, experts in relevant technologies, STEM formal and informal education specialists, researchers with expertise in the learning sciences, and specialists in education research and evaluation methods to submit proposals for research projects that (1) Study efficacy of existing prototypes for innovations like virtual schools, special STEM schools, and educational programs that combine opportunities of formal and informal learning resources in their communities; or (2) Design and conduct exploratory development of new potentially transformative models for STEM learning environments. The cross-cutting proposals will draw from work in the four primary DRL programs: Discovery Research K-12 (DR K-12), Informal Science Education (ISE), Research and Evaluation on Education in Science and Engineering (REESE), and Innovative Technology Experiences for Students and Teachers (ITEST). However, proposals submitted in response to this solicitation must have a scope that extends well beyond any of those programs individually.

ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers (ADVANCE)
Funding Agency: National Science Foundation
Funding #: 10-593
Due: Letter of Intent Due 10/3/2010
Link: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5383

The goal of the ADVANCE program is to develop systemic approaches to increase the representation and advancement of women in academic science, technology, engineering and mathematics (STEM) careers, there by contributing to the development of a more diverse science and engineering workforce. ADVANCE focuses on ensuring that women faculty with earned STEM degrees consider academia as a viable and attractive career option. This program does not support projects to increase or retain the number of women entering into or persisting in STEM doctoral degree programs. Thus, efforts to impact the STEM pipeline are not considered appropriate for the ADVANCE Program. In 2001-2012, this program will support Institutional Transformation (IT), Institutional Transformation Catalyst (IT-Catalyst) and Partnerships for Adaptation, Implementation, and Dissemination (PAID)ADVANCE projects.

Graduate Research Fellowship Program (GRFP)
Funding Agency: National Science Foundation
Funding #: 10-604
Due: 11/18/2010
Link: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=6201

The purpose of the NSF Graduate Research Fellowship Program (GRFP) is to help ensure the vitality and diversity of the scientific and engineering workforce in the United States. The program recognizes and supports outstanding graduate students who are pursuing research-based master's and doctoral degrees in fields within NSF's mission. The GRFP provides three years of support for the graduate education of individuals who have demonstrated their potential for significant achievements in science and engineering research. The ranks of NSF Fellows include individuals who have made transformative breakthroughs in science and engineering research and have become leaders in their chosen careers and Nobel laureates.

Prepared By: UConn SoE - Research Initiatives Support Team (RIST)
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