Research Initiation Grants in Engineering Education (RIGEE)
Funding Agency: National Science Foundation
Funding #: 11-507
Due: 3/31/2011
Link: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503603

Engineering faculty possess both deep technical expertise in their engineering discipline and the primary responsibility for educating future engineers. As such, engineering faculty are in a unique position to help address critical challenges in engineering education. The Research Initiation Grants in Engineering Education (RIGEE) program enables engineering faculty who are renowned for teaching, mentoring, or leading educational reform efforts on their campus to initiate collaborations with colleagues in the learning and cognitive sciences to address difficult, boundary-spanning problems in how we educate engineers.

ENGAGE: Learning to Solve Problems, Solving Problems to Learn
Funding Agency: Defense Advanced Research Projects Agency (DARPA), Information Innovation Office (I2O)
Funding #: DARPA-BAA-11-36
Link: http://www.grants.gov/search/synopsis.do;jsessionid=vybdNwqVJGkjhKRGybfkTgnMhb4hxXZj6CNpXQDH1J5WZl99TTvl-1824456987

DARPA is soliciting proposals for innovative research in educational systems that will ENGAGE young students (Pre-K – Grade 3) in Science, Technology, Engineering, and Mathematics (STEM) studies while conducting research into the best methods and practices for teaching these topics. Specifically, an educational game-based approach is being sought that will analyze game-play across thousands of players to determine the best approaches for teaching specific STEM topics while taking into account individual learning styles, demographics and other factors identified by the game to impact learning. These educational games must meet the highest industry standards for quality and engagement while incorporating the best pedagogical practices and clearly focusing on the ability to measure and identify metrics critical to teaching STEM topics, as well as to see if the lessons learned within the game generalize to the classroom.

Nuclear Energy University Programs General Scientific Infrastructure Support
Funding #: DE-FOA-0000481
Due: 04/04/2011
Link: https://www.fedconnect.net/FedConnect/PublicPages/PublicSearch/Public_Opportunities.aspx

This Funding Opportunity Announcement (FOA) is the fiscal year (FY) 2011 solicitation for Nuclear Energy University Programs (NEUP) General Scientific Infrastructure Support for the Department of
Energy’s (DOE) Office of Nuclear Energy (NE). This FOA is seeking applications from U.S. universities and colleges for equipment and instrumentation infrastructure to support nuclear energy-related engineering and science teaching and research laboratories.

Innovative Systems for Military Missions - Tactical Technology Office
Funding Agency: Defense Advanced Research Projects Agency (DARPA), Tactical Technology Office
Funding #: DARPA-BAA-11-13
Due: Ongoing through specified dates: Executive Summary (Optional) - 12/16/2011, White Paper (Optional) - 01/06/2012, Full Proposal - 02/17/2012

The Tactical Technology Office (TTO) of the Defense Advanced Research Projects Agency (DARPA) is soliciting executive summaries, white papers and proposals for advanced research and development of Innovative Systems for Military Missions. Innovative Systems are integrated systems or critical systems components, which often incorporate emerging advanced technologies, and which enable revolutionary improvements to the capability, efficiency and effectiveness of the military. TTO seeks responses relating to three (3) mission thrust areas (“mission thrusts”): Advanced Weapons Systems- Advanced Platforms- Advanced Space Systems Responses to the thrust areas may be submitted at any time during the open period of this solicitation. TTO’s solicitation focuses on the high risk/high payoff development, integration, demonstration and evaluation of innovative systems or critical systems components enabled by, and incorporating, new or emerging technologies. Proposed efforts must also show significant promise to provide the U.S. military with revolutionary new mission capabilities, and/or enable significant increases in mission effectiveness. Innovative system concepts of interest to TTO typically address emerging technical opportunities, advanced systems concepts, emergent threats, and/or new technology-enabled concepts of operation. TTO strongly encourages respondents to adopt a complete systems engineering approach to the problems.

Faculty Early Career Development (CAREER) Program
Funding Agency: National Science Foundation
Funding #: 11-690
Due: 07/27/2011
Link: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503214

CAREER: The Faculty Early Career Development (CAREER) Program is a Foundation-wide activity that offers the National Science Foundation's most prestigious awards in support of junior faculty who exemplify the role of teacher-scholars through outstanding research, excellent education and the integration of education and research within the context of the mission of their organizations. Such activities should build a firm foundation for a lifetime of leadership in integrating education and research. NSF encourages submission of CAREER proposals from junior faculty members at all CAREER-eligible organizations and especially encourages women, members of underrepresented minority groups, and persons with disabilities to apply. PECASE: Each year NSF selects nominees for the Presidential Early Career Awards for Scientists and Engineers (PECASE) from among the most meritorious recent CAREER awardees. Selection for this award is based on two important criteria: 1)
innovative research at the frontiers of science and technology that is relevant to the mission of the sponsoring organization or agency, and 2) community service demonstrated through scientific leadership, education or community outreach. These awards foster innovative developments in science and technology, increase awareness of careers in science and engineering, give recognition to the scientific missions of the participating agencies, enhance connections between fundamental research and national goals, and highlight the importance of science and technology for the Nation’s future. Individuals cannot apply for PECASE. These awards are initiated by the participating federal agencies. At NSF, up to twenty nominees for this award are selected each year from among the PECASE-eligible CAREER awardees who are most likely to become the leaders of academic research and education in the twenty-first century. The White House Office of Science and Technology Policy makes the final selection and announcement of the awardees.

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