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Research Opportunities Compiled by:

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Opportunity #1

Recovery Act: Geologic Sequestration Training and Research
Department of Energy
DE-FOA-0000032

Description: Grant applications from universities, colleges, and college-affiliated research institutions and Historically Black Colleges and Universities and Other Minority Institutions (HBCU/OMI) are sought to provide training opportunities for graduate and undergraduate students that will provide the human capital and skills required for implementing and deploying CCS technologies. Training can be accomplished through fundamental research in the CCS technology area. Fundamental research is needed to advance science in: simulation and risk assessment; monitoring, verification, and accounting; geological related analytical tools; methods to interpret geophysical models; well completion and integrity for long-term CO₂ storage; and CO₂ capture.

Link to Full Announcement:

<http://www07.grants.gov/search/search.do;jsessionid=yMvFKKDpfv1039T2zn1TkRVDMxdJG1K2Gnh4Y2xnTDMtvTqPGG3R!-1757398871?oppld=48212&mode=VIEW>

Opportunity #2

Recovery Act - Solid-State Lighting Product Development - Round VI
Department of Energy
DE-FOA-0000055

Description: The objective of this Announcement is product development of general illumination SSL sources, luminaires, and enabling products. Product development is the systematic use of knowledge gained from basic and applied research to develop or improve commercially viable materials, devices, or systems

Link to Full Announcement:

<http://www07.grants.gov/search/search.do;jsessionid=yMvFKKDpfv1039T2zn1TkRVDMxdJG1K2Gnh4Y2xnTDMtvTqPGG3R!-1757398871?oppld=48211&mode=VIEW>

Opportunity #3

Recovery Act - Solid State Lighting U.S. Manufacturing - Round 1
Department of Energy – National Energy Technology Lab
DE-FOA-0000057

Description: The objective of this Funding Opportunity Announcement (FOA) is to achieve cost reduction of solid-state lighting for general illumination through improvements in manufacturing equipment, processes, or techniques. It is anticipated that success will lead to a more rapid adoption/installation of high-quality SSL products resulting in a significant reduction of energy use and a corresponding reduction of environmental pollutants. A secondary objective is to maintain, in the case of light emitting diodes (LEDs), or establish, in the case of organic light emitting diodes (OLEDs), the manufacturing and technology base within the US.

Link to Full Announcement:

<http://www07.grants.gov/search/search.do;jsessionid=XkNBKJSLIDxndzQ5f8R3B91hfXBR7YBjwzLsfSLRSfJsPvz0pJ2G!-723925807?oppld=48208&mode=VIEW>

Opportunity #4

Topical Collaborations in Nuclear Theory Department of Energy DE-PS02-09ER09-24

Description: The Office of Nuclear Physics (NP), Office of Science (SC), U.S. Department of Energy (DOE), hereby announces its interest in receiving proposals for Topical Collaborations in Nuclear Theory. Topical Collaborations are fixed-term, multi-institution collaborations established to investigate a specific topic in nuclear physics of special interest to the community, which is well aligned with programmatic NP goals. They also provide a mechanism for maintaining a robust community, by encouraging the creation of tenured university appointments and permanent laboratory positions in nuclear theory.

Link to Full Announcement:

<http://www07.grants.gov/search/search.do;jsessionid=yMvFKKDpfv1039T2zn1TkRVDMxdJG1K2Gnh4Y2xnTDMtvTqPGG3R!-1757398871?oppld=48209&mode=VIEW>

Opportunity #5

Keeping up: Technology's Rapid Changes and Effects on People with Disabilities National Council on Disabilities NCD 09-04

Description: The National Council on Disability is interested in evaluating how Americans with disabilities are faring in this new digital media age. NCD is interested in examining the accessibility of new media and technologies developed, documenting successful development processes, understanding consumer needs, and identifying the facilitators and barriers to the technology transfer for employment purposes. Through this research, NCD will aim to educate designers about how specific new technologies intersect with the employment needs of individuals with disabilities. This research will aim to provide technology developers with knowledge on how their complex products can be developed in a cost-effective way and used to increase the employment of people with disabilities. As part of this research, six new media sources and/or digital technology products will be analyzed for their utility in employment settings, and their accessibility to people with disabilities. This analysis should include market trends, potential consumers, facilitators and barriers to expanding the market to employment settings, industry practice, and accessibility. NCD proposes to collect data on the experiences of people with disabilities in this new media environment; highlight accomplishments, and determine recommendations for how digital media accessibility for people with disabilities can be improved. NCD hopes the information in this report will motivate and drive the development of new technologies that will improve the employment status of people with disabilities.

Link to Full Announcement:

<http://www07.grants.gov/search/search.do;jsessionid=XkNBKJSLIDxndzQ5f8R3B91hfXBR7YBjwzLsfSLRSfJsPvz0pJ2GI-723925807?oppld=48179&mode=VIEW>

Opportunity #6

Incubator Proposal Opportunity for Research Coordination Networks - Undergraduate Biology Education NSF Dear Colleague NSF 09-057

Dear Colleague: We call your attention to an additional mechanism to support collaborations aimed at injecting new ideas and approaches into undergraduate biology curricula. As part of our effort to stimulate positive changes in biology education, we will accept proposals that request support for the initial development of networks that will catalyze positive changes in biology undergraduate education.

The Undergraduate Biology Education track in the Research Coordination Network program (RCN-UBE) considers proposals that will enhance communication and coordination among scientists and educators who are exploring new approaches to enhance undergraduate biology education. The proposed networking activities should have a theme as a focus of its collaboration. The focus could be on a broad research question, a specific group of organisms, or particular technologies or approaches. For details of the RCN program see:

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=11691&org=BIO

To aid in the development of innovative RCN-UBE proposals, and in particular to assist initial networking efforts of scientists and educators who are developing proposals for the RCN-UBE track, we will accept proposals for up to \$50,000 for one year. NSF will provide additional assistance to scientists and educators who are seeking to identify potential network participants by establishing a web site (Wiki) where individuals can post and review statements of interest in specific topics that may be the focus of an incubator or full RCN-UBE proposal.

Investigators who wish to have a project considered under the guidelines of this Dear Colleague Letter should submit a proposal to the RCN program in compliance with normal target dates and/or deadlines. The title of the project must include the prefix "RCN UBE-Incubator:", and the project description should not exceed eight pages. Descriptions of the RCN management plan, the RCN coordination plan, and the RCN information and material sharing, which are all required for a full RCN-UBE proposal, are not required for these proposals.

Proposals will be reviewed by standard review practices.

Proposers should review the RCN Program Solicitation to ensure that eligibility requirements are met. Investigators with an interest in the RCN-UBE track, and in these incubator proposals, are strongly encouraged to send a brief e-mail note of inquiry to RCN-UBE@nsf.gov to initiate discussion of potential proposal topics with an appropriate NSF program officer.

Link to Full Announcement:

http://www.nsf.gov/pubs/2009/nsf09057/nsf09057.txt?govDel=USNSF_25