

November/December 2007 – Grant Opportunities in Engineering

Dear Engineering Faculty Members –

Here is our November/December 2007 listing of grant opportunities for faculty members in Engineering.

All of these notice are posted as PDF file on the Office of Research and Economic Development webpage on the Research Funding webpage (<http://www.research.msstate.edu/funding/>).

Please let my office know if we can help in any way with grant proposals for these or other opportunities.

1. Engineering (FELLOWSHIP)

Applications for Tau Beta Pi Fellowships.

Deadline: February 1, 2008

Contact: Steve Pierre, Alabama Power Company, P.O. Box 2247, Mobile, Ala. 36652;

Categories: Engineering (Science/technology/mathematics).

2. Science (FELLOWSHIP)

Applications for awards or fellowships from the National Research Council for independent postdoctoral and senior scientific research, to be conducted at participating laboratories of the U.S. government.

Deadline: February 1, 2008

Contact: National Research Council

Phone: (202) 334-2760,

Categories: Engineering. Research administration. Science/technology/mathematics.

3. Science (FELLOWSHIP)

Applications for fellowships from the National Research Council for independent postdoctoral and senior scientific research, to be conducted at participating laboratories of the U.S. government.

Deadline: February 1, 2008

Contact: National Research Council

Phone: (202) 334-2760,

Categories: Engineering. Research administration. Science/technology/mathematics.

4. Science (FELLOWSHIP)

Applications for National Security Science and Engineering Faculty Fellowships, sponsored by the Department of Defense.

Deadline: February 21, 2008

Contact: Elizabeth Dial, Office of Basic Research

Phone: (703) 588-1474,

Categories: Engineering (Science/technology/mathematics).

Science/technology/mathematics (Faculty/research).

5. National Science Foundation - Cyberinfrastructure Experiences For Graduate Students (CIEG): Supplements (DEADLINE – February 1, 2008)

SYNOPSIS: This Directorate for Engineering (ENG) Dear Colleague Letter (DCL) seeks to provide supplemental funding to current awardees to support graduate students to gain experience with cyberinfrastructure tools at either the National Center for Supercomputing Applications (NCSA) or the San Diego Supercomputer Center (SDSC).

This DCL concerns opportunities for graduate students. The National Science Foundation (NSF), through the Directorate for Engineering, announces the Cyberinfrastructure Experiences for Graduate Students (CIEG) initiative. CIEG will support 10-week summer visits by graduate students to visit either NCSA or SDSC. The visits must be related to the objectives of ongoing work in current projects. The experience should promote the use of cyber tools within the Ph.D. dissertation topic of the students, and help foster a generation of researchers for whom such tools are incorporated naturally into advancing the research field.

More Information: <http://www.nsf.gov/pubs/2008/nsf08009/nsf08009.jsp>

6. National Institute of Health - Predictive Multiscale Models of the Physiome in Health and Disease (R01) – (DEADLINE – Rolling – May 14, 2008)

Synopsis - This Funding Opportunity Announcement (FOA) issued by the National Institute of Biomedical Imaging and Bioengineering (NIBIB), National Cancer Institute (NCI), National Heart, Lung, and Blood Institute (NHLBI), National Institute on Aging (NIA), National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), National Institute on Deafness and Other Communication Disorders (NIDCD), National Institute on Drug Abuse (NIDA), National Institute of Environmental Health Sciences (NIEHS), National Institute of General Medical Sciences (NIGMS), National Institute of Mental Health (NIMH), National Institute of Neurological Disorders and Stroke (NINDS), and National Library of Medicine (NLM) solicits Research Project Grant (R01) applications from institutions/ organizations that propose to develop predictive multiscale models of the physiome in health and disease.

Purpose. The goal of this solicitation is to move the field of biomedical computational modeling forward through the development of more realistic and predictive models of health and disease. NIH recognizes the need for sophisticated, predictive, computational models of development and disease that encompass multiple biological scales. These models may be designed to uncover biological mechanisms or to make predictions about clinical outcome and may draw on a variety of data sources including relevant clinical data. Ultimately the models and the information derived from their use will enable researchers and clinicians to better understand, prevent, diagnose and treat the diseases or aberrations in normal development. Specifically this FOA solicits the development of predictive multiscale models of health and disease states that must include higher scales of the physiome (see definitions below). The specific objectives are to develop multiscale models that are physiologically mechanistic and biomedically relevant, to

bring together modeling and biomedical expertise to collaborate on building models, to validate and test models with standard datasets, and to develop models that can be explicitly shared with other modelers.

More Information: <http://grants.nih.gov/grants/guide/pa-files/PA-08-023.html>