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10-17-2011

## Office of Research, News & Opportunities, October 17, 2011

University of Tennessee Office of Research

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### DEADLINE EXTENDED

#### SARIF Equipment & Infrastructure proposal time lengthened

The deadline for proposals to the Equipment and Infrastructure Fund administered by the UT Office of Research has been extended two weeks until Friday, October 28, 2011.

The fund, totaling approximately \$300,000 annually, supports research-related equipment purchases, upgrades, and repairs in UT Knoxville departments, centers, and colleges. Cost-sharing is required. The program is part of UTK's Scholarly Activity and Research Incentive Fund (SARIF).

**Key date (revised):** Friday, October 28, 2011, at noon -- proposals must be submitted electronically to Jane Taylor (tayloje@utk.edu)

**Details:** <http://research.utk.edu/funding/equip.shtml>

#### DOD offers full scholarships for undergraduates, grad students

The U.S. Department of Defense is offering full academic support for undergraduates and graduate students in science, mathematics, and related research disciplines coupled with unique opportunities for doing science or engineering in Department of Defense facilities.

The Science, Mathematics, and Research for Transformation Scholarship Program (SMART) is a highly competitive national program that pays all educational costs, plus a stipend, for from one term to as much as five years. Stipends can range from \$25,000 to \$41,000 and can include health insurance contributions, paid summer internships, and other benefits.

UT faculty can encourage promising students to apply for the program.

**Key date:** December 1, 2011, submission of application

**Details:** <http://smart.asee.org/>

Faculty are also invited to register to be a potential panelist for the 2012 SMART Evaluation Panel, which will meet January 19-21, 2012, in Washington, DC. Panelists must have an outstanding research record in a SMART-supported field and must be able to evaluate student applications.

**Details:** [https://panelists.asee.org/program\\_info/smart](https://panelists.asee.org/program_info/smart)

#### DOE seeks partnerships in computation for chemistry, materials

The U.S. Department of Energy is soliciting applications from interdisciplinary teams interested in proposing Scientific Computation Application Partnerships in the materials and chemical sciences through DOE's Scientific Discovery through Advanced Computing (SciDAC) program. In order to implement new algorithms on current and next-generation massively parallel computers, the partnerships will create teams made up of materials and chemical scientists, applied mathematicians, and computer scientists to work with universities, industry, nonprofit organizations, federal R&D centers, and national laboratories. The partnerships will be part of the Materials Genome Initiative for Global Competitiveness.

The program is expected to make between 5 and 12 awards drawing on \$6 million in appropriated funds in FY 2012. The award period is expected to be five years.

**Key dates:** December 9, 2011 – required preapplication;

March 12, 2012 – full application

**Details:** [http://science.doe.gov/grants/pdf/SC\\_FOA\\_0000593.pdf](http://science.doe.gov/grants/pdf/SC_FOA_0000593.pdf)

### SHORT DEADLINE

#### DOE seeks to create one SciDAC Institute on modeling, simulation

The U.S. Department of Energy is talking applications for a SciDAC Institute for data management, analysis, and visualization. The institute will fall under the DOE Office of Advanced Scientific Computing Research and will provide a single point of contact for scientists participating in Scientific Computation Application Partnerships (see previous opportunity).

**Key date:** November 9, 2011 – application

**Details:** [http://science.doe.gov/grants/pdf/SC\\_FOA\\_0000589.pdf](http://science.doe.gov/grants/pdf/SC_FOA_0000589.pdf)

### REMINDER

#### Deadline for undergraduate research journal nears

UT faculty who have undergraduates working on significant scholarly projects should encourage them to submit papers to the spring number of *Pursuit, The Journal of Undergraduate Research at the University of Tennessee*.

For the first time in academic year 2011-12, the journal will be published in both fall and spring semesters.

*Pursuit* is dedicated to publishing the scholarly work of UT undergraduates and is supported by the Chancellor's Honors Program and the UT Office of Research.

**Key date:** October 21, 2011 – submission of research paper and theses through Trace (<http://trace.tennessee.edu>.)

**Contact:** Sarah Russell (srusse22@utk.edu), editor-in-chief

#### NASA seeks scientists to advise X-ray observatory project

NASA's Astrophysics Division is inviting U.S. scientists to serve on the NASA Physics of the Cosmos (PCOS) Community Science Team for X-Ray Astrophysics Mission Concepts. The X-Ray community science team will evaluate information submitted as part of evaluating objectives for the International X-Ray Observatory.

NASA will select some 10 committee members and a chair of the group; the team is expected to complete its work by summer 2012.

**Key date:** October 19, 2011 – Letters of application due for Community Science Team; October 28, 2011 – Responses to NASA request for information on the X-Ray astronomy mission

**Details:** <http://pcos.gsfc.nasa.gov/studies/x-ray-mission.php>

#### ORNL plans workshop on soft-matter neutron modeling studies

Oak Ridge National Laboratory and the Jülich Centre for Neutron Science will sponsor a workshop on modeling and simulation using neutron data from such soft matter as polymers, proteins, and complex fluids. One goal of the workshop is to develop collaborations among neutron-scattering experimenters and scientists doing modeling and simulation.

The workshop will be held November 9 -11, 2011 at the Spallation Neutron Source at Oak Ridge National Laboratory. Contributed talks and posters are invited.

**Key date:** October 24, 2011 – registration by U.S. citizens, persons possessing a current ORNL badge, and persons making their own travel arrangements without ORNL support.

**Details:** <http://neutrons.ornl.gov/conf/ModSim2011/>

#### Faculty early-career research experiences collected

For many faculty members at UTK, undergraduate research made a huge difference on their career path. The Office of Research has captured some of those stories, which are now posted under "Research Highlights" on the undergraduate research webpage. If you are willing to share your story, please send an email to [utkur@utk.edu](mailto:utkur@utk.edu).

#### Looking for faculty accomplishments

Early in 2012, the Office of Research publishes its annual "A Year of Accomplishment" poster recognizing exceptional faculty achievement in the preceding year. Faculty and administrators are encouraged to submit notable honors, offices, and other accomplishments achieved by individual faculty in calendar year 2011. Submit brief items to Bill Dockery ([dockeryb@utk.edu](mailto:dockeryb@utk.edu)).



## LIMITED SUBMISSION

### ORAU's Powe award seeking applicants

Oak Ridge Associated Universities will be taking nominations for its Ralph E. Powe Junior Faculty Enhancement Awards for 2012.

As a member of ORAU, the University of Tennessee is eligible to nominate two junior faculty for the Powe awards. The nominations must be made by UT's ORAU councilor, the vice chancellor for research. The Powe provides the researcher with \$5,000, which must be matched by the member institution.

Eligible faculty must be within two years of their initial tenure track appointment (January 13, 2010, through January 13, 2012).

Powe support is awarded in five disciplines: engineering & applied science, life sciences, mathematics & computer sciences, physical sciences, and policy, management, or education.

LIMITED SUBMISSION: The University of Tennessee, including the Space Institute and the Institute of Agriculture, may submit only two nominations for the Powe award. Junior faculty interested in being nominated must submit a statement of interest and a research proposal of no more than two pages to

[limitsub@utk.edu](mailto:limitsub@utk.edu)

If more than two faculty express interest, the Office of Research will conduct an internal competition to determine the university's nominees.

**Contact:** Robert Porter ([reporter@utk.edu](mailto:reporter@utk.edu))

**Key dates:**

October 27, 2011, by 12 noon – statement of interest submitted electronically to [limitsub@utk.edu](mailto:limitsub@utk.edu)

January 5, 2012, by 12 noon – electronic submission of complete application to Office of Vice Chancellor for Research, c/o Rachel Bowers ([rbowers@utk.edu](mailto:rbowers@utk.edu)). The nomination will be forwarded to ORAU by the UTK vice chancellor for research.

**Details:** <http://www.orau.org/university-partnerships/faculty-student-programs/powe/default.aspx>

### Gates Foundation to honor vaccine delivery innovation

The Bill & Melinda Gates Foundation is now accepting nominations for the Gates Vaccine Innovation Award to recognize, celebrate, and spur transformative ideas for achieving impact through the delivery of vaccines.

The award winner will be recognized with \$250,000, featured on our website, and personally acknowledged by Gates Foundation leadership.

The competition is open to individuals from any discipline who work on delivery of vaccines. Candidates from academic institutions, governments, health care facilities, research institutions, nonprofit organizations, and for-profit companies may be nominated.

Innovation in the delivery of vaccines can take many shapes. The competition welcomes a diverse array of ideas. As long as the innovation has resulted in tangible health impact related to vaccine delivery, it is eligible for consideration.

Nominees will be assessed on three broad criteria: impact, innovation and creativity, and scale.

Nominations focused on innovation in the areas of science and research & development are not eligible for consideration. This award is focused only on programs and policies associated with achieving impact through the delivery of vaccines.

**Key date:** November 17, 2011 – online submission of nomination

**Details:** <http://www.gatesfoundation.org/vaccines/Pages/vaccine-innovation-award.aspx>

### Survey responses sought on UT radiation safety department

UT Radiation Safety Department is seeking input in a short survey to determine how well the department services the needs of the university community. The online survey is anonymous and voluntary.

Responses to the survey will form the basis for improving the practices and policies of the department.

**Survey:** <http://www.surveymonkey.com/s/J7TNYLD>

## SHORT DEADLINE

### ORAU seeks graduate students for visit to Nobel Laureate meeting

University of Tennessee faculty will have the opportunity to nominate up to eight graduate students in physics-related disciplines to attend the 2012 Nobel Laureate meeting in Lindau, Germany.

Oak Ridge Associated Universities, the Department of Energy, the National Science Foundation, and Mars, Inc., are sponsoring some 85 graduate students to attend the gathering of Nobel laureates, which takes place July 1-6, 2012, in Lindau.

Faculty can nominate students in four categories:

1. Those supported by DOE Office of Science projects, grants, or fellowships
2. Those supported by NSF projects, grants, or fellowships under the Directorate for Mathematical Science
3. Those who are generally eligible and are attending ORAU member institutions
4. Those who are generally eligible and are nominated for support through Mars, Inc.

Only two nominations can be submitted in each of the above categories, with a total of eight nominations possible from UT. See the website for specific application details for each category.

The meeting of laureates and students has taken place at Lindau since 1951.

**Key date:** November 15, 2011, by 4 p.m. Eastern Time – electronic submission of nominations

**Details:** <http://www.orau.org/lindau/apply/process.shtml>

### Proposals for student-owned businesses sought

The Anderson Center for Entrepreneurship and Innovation in the College of Business Administration is soliciting applications for its fall 2011 round of seed-funding awards to student-owned businesses.

Through an endowment from UT alumnus Randy Boyd, the center funds proposals from all students in all degree programs at UTK. Applicants must have a legally established business and the student owners must be enrolled in a UTK degree program. Applications should include an executive summary, a pro forma budget, and a use-of-funds statement. Criteria for selection will include need for capital, viability of concept, and growth potential.

In addition to seed funds, the Anderson Center will provide mentoring services.

The program is funded through an endowment from Randy Boyd, UT alumnus and president and CEO of Radio Systems Corporation.

**Key date:** November 21, 2011 – submission of application to [cei@utk.edu](mailto:cei@utk.edu) (subject line: The Boyd Venture Fund)

**Contact:** Tom Graves ([tgrave10@utk.edu](mailto:tgrave10@utk.edu), 865-974-6131)