



University of Tennessee, Knoxville
**Trace: Tennessee Research and Creative
Exchange**

News and Opportunities

Office of Research

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University of Tennessee Office of Research

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IACUC must be informed of changes in animal research plans

UT faculty who employ animal subjects in research must submit their research plans to the UT Institutional Animal Care and Use Committee and comply with all relevant animal protocols. UT's IACUC panel focuses on assisting UT researchers in staying in compliance with regulations of the U.S. Department of Agriculture and of the Office of Laboratory Animal Welfare under the National Institutes of Health.

During the course of a study, changes in methods, treatments, or animals may trigger a need to reevaluate and perhaps significantly alter the manner in which an experiment is carried out. Important project revisions cannot be made without approval by the IACUC. Changes to an IACUC protocol that are considered minor can be reviewed and approved by the panel's attending veterinarian and the IACUC chairman; more substantial changes require review by the entire IACUC.

Changes which require approval prior to initiation include

- a switch to less invasive procedures
- a change in surgical procedure from survival to nonsurvival
- change in timing of experimental endpoint to lessen or lower animal discomfort
- change in route of administration or dose of an anesthetic, analgesic, or test compound
- change of euthanasia method.

According to the Office of Laboratory Animal Welfare, the introduction of new personnel (research associates, graduate students, or undergraduates) into a research project is not considered a significant change, provided that all new personnel are identified, adequately trained, qualified to perform approved protocol procedures, enrolled in occupational health and safety programs, and compliant with other criteria required by the IACUC.

The IACUC has some discretion to define what it considers significant and to establish a mechanism for determining significance on a case-by-case basis. The UT IACUC serves the UT Knoxville campus, the Institute of Agriculture, and the Graduate School of Medicine in Knoxville. Guidelines on changes in animal research plans are available from the IACUC coordinator, Elizabeth Bailey (865-974-3631, ebailey@utk.edu).

Details: <http://iacuc.utk.edu/policies/>

REMINDER: Approaching deadlines

Jan. 28, noon – Nominations for Chancellors Honors Professional Promise (junior faculty)
Research and Creative Achievement (senior faculty)

Feb. 11, noon – Notice of intent to participate, Exhibition of Undergraduate Research and Creative Activity

Feb. 18, noon – Applications submitted for Graduate Research Assistantships

Mar. 4, noon – Submission of abstract, Exhibition of Undergraduate Research and Creative Activity

Mar. 9, noon – Applications submitted for Undergraduate Summer Research Internships

Documents connected to any of the programs above should be submitted electronically to Jane Taylor (taylorje@utk.edu) by the appropriate date.

SHORT DEADLINE to apply for ORNL's RAMS program

Undergraduate and graduate students interested in a 10-to-12-week internship at Oak Ridge National Laboratory can apply for participation in the Research Alliance in Math and Science program. The program provides opportunities for interns to participate in research with an ORNL researcher, and includes an hourly pay rate and a housing allowance.

Key date: January 28, 2011, completed application due

Details: <http://computing.ornl.gov/internships/rams/index.shtml>

Additional TERA-PAMS training, users guide available

The Office of Research is now using the Tennessee Electronic Research Administration system and its Proposal and Award Maintenance System for routing and processing proposals and resulting awards.

Another session of TERA-PAMS training will be offered for faculty and proposal-related staff who did not attend any of the fall 2010 sessions.

Session: A-Z of Proposal Preparation in TERA-PAMS and Role Manager/ Approver Training

Date & time: January 26, 2011, from 10 a.m. to 12 noon

Location: 403 Blount Hall, 1534 White Avenue

Those who need quick information about using various features of the PAMS module can access the new TERA-PAMS Users Guide for reminders about process details.

Details: <http://research.utk.edu/tera>

http://research.utk.edu/training/reg_form.shtml

http://research.utk.edu/tera/tera_users_guide.pdf

Workshop will introduce Fulbright opportunities

A workshop for faculty and staff interested in involvement with Fulbright programs will be held in two sessions in early February in 403 Blount Hall, 1534 White Avenue.

The event will cover a variety of Fulbright programs, including scholarships, distinguished-chair awards, scholar-in-residence programs, administrators seminars, and specialist programs. The sessions will focus on researching various Fulbright options and countries, developing in-country contacts, time lines, and tips for writing successful proposals.

The workshops will be conducted by Pia Wood, associate provost and director of the Center for International Education, and Alan Rutenberg, director of proposal development for the Office of Research.

Key dates: Thursday, February 3, 2011 from 9 till 11 a.m. or Friday, February 4 from 3 to 5 p.m.

Contact: RSVP to Bea Misch (bmisch@utk.edu, 974-3177)

Two UTK projects receive Research Foundation support

Two UT Knoxville proposals are among nine funded for further development as part of the UT Research Foundation's Maturation Fund program.

Researchers Gary Sayler, Steven Ripp, and Dan Close in the Center for Environmental Biotechnology and Seung Baek in the Department of Pathobiology, College of Veterinary Medicine, received support to continue development of methods to detect bioluminescent proteins using standard imaging techniques.

Jayne Wu from the Department of Electrical Engineering and Computer Science and Shige Eda from the Department of Animal Sciences, Institute of Agriculture, received funding to proceed with a bacterial diagnostic device based on lab-on-a-chip technology.

UTRF received 41 proposals from the systemwide university. Judging was done by subject-matter and technology commercialization experts, aided by Technology 2020 and Innova Memphis.

NEA announces details of 2011 arts programs

The National Endowment for the Arts has posted 2011 application guidelines for its Grants for Arts Projects and Our Town programs on its website.

The Art Works program supports the creation of art that meets high standards of excellence, public engagement, lifelong learning, and community-building. Innovative projects may qualify for grants ranging from \$10,000 to \$100,000.

Key dates: March 10, 2011, or August 11, 2011, applications due

Challenge America Fast-Track supports projects that extend the reach of the arts to underserved populations. Grants are for \$10,000.

Key date: May 26, 2011, applications due

The Our Town program supports creation of projects that contribute to the livability of communities and put the arts at their core. Grants range from \$25,000 to \$250,000.

Key date: March 1, 2011, statement of interest due

Webinars on the various programs are available for registration on the website.

Details: www.arts.gov/grants/apply



NASA extends deadline for sending astronautical abstracts

The National Aeronautics and Space Administration has extended the deadline for full-time graduate students to submit abstracts for the 62nd International Astronautical Congress that will be held in Cape Town, South Africa, in October 2011.

The abstract is a precursor for submission of a final original paper that will be considered for presentation at the congress.

Key dates: February 28, 2011, submission to NASA web site (<https://iac.nasaprs.com/iac/home/index.cfm>);

March 2, 2011, submission to the Congress web site (<http://iac2011.com>)

Details: <http://iac2011.com/sites/default/files/pdf/iac2011-call-for-papers.pdf>

Summer internships available to UTK undergrads

Up to 75 summer internships will be available to UT Knoxville undergraduates through the annual internship program funded by the Office of the Chancellor and administered through the Office of Research.

Undergraduates selected will receive \$2,000 in support of a research or creative project undertaken during summer 2011 under the mentorship of a UT Knoxville faculty mentor.

The program is designed to increase undergraduate participation in the UT research enterprise.

Application materials include

--a filled-out application form

--a current copy of the UT student's transcript or academic history

--a written narrative (maximum two pages) describing the scope of the proposal and its relationship to the student's educational program

--a schedule designating schedule and level of effort.

Key date: Noon, March 9, 2011 – electronic submission of all materials to UT Office of Research (tayloje@utk.edu)

Details: <http://research.utk.edu/internships/>

CUR lists opportunities for undergrad research

Several agencies are soliciting applications from undergraduates interested in summer research projects. The Council for Undergraduate Research (CUR) posts new opportunities weekly. Several are listed below, offering students the opportunity to get research experience while getting paid, and many more are listed on CUR's facebook page.

NOTE: All UT Knoxville faculty, staff, and students may register for membership in CUR at no cost and receive targeted messages via email.

Details: www.utk.edu/undergrad

Sensing and Signaling REU at UT-Knoxville

The Department of Biochemistry and Cellular and Molecular Biology at University of Tennessee, Knoxville, is hosting a summer Research Experience for Undergraduates with the theme of "Sensing and Signaling." It is open to current sophomores and juniors, with priority given to juniors. The program runs from June 6 through July 29, 2011. This comes with a stipend and housing on campus.

Details: <http://web.bio.utk.edu/bcmb/reu/index.shtml>

Deadline: March 30, 2011

Research Experience in Solid Earth Science for Students (RESESS)

Hosted by UNAVCO, a nonprofit consortium, this multi-summer internship program in Boulder, CO, is dedicated to increasing diversity in the geosciences. Requirements: 2 yrs. of college; at least one semester of college remaining after 1st summer; major in geology, math, physics, geophysics, physical geography, engineering, environmental sciences, or hydrology; plan to pursue career in Earth science or related field; GPA of 3.0 is desirable; U.S. citizenship or permanent-resident status.

Details: www.resess.org

Deadline: February 10, 2011

Biotechnology REU at Western Kentucky University

Accepted students will spend the summer at Western Kentucky University in Bowling Green, KY, and be trained in research techniques, participate in one of 19 research projects, and gain valuable presentation skills. Additionally, students will benefit from a series of workshops exploring ethics and preparing students to apply for and succeed in graduate school. Students will receive a stipend of \$480 per week, free housing, meal and travel allowances, and lab supplies.

Details: <http://www.wku.edu/biotechreu/>

Deadline: March 1, 2011

Course on neutron, X-ray scattering set for ORNL, Argonne

The 13th National School on Neutron and X-Ray Scattering has been scheduled for June 11- 25, 2011, at Oak Ridge National Laboratory and Argonne National Laboratory.

The event is designed to educate graduate students on the use of major neutron and x-ray facilities. Lectures on scattering theory and the characteristics of the sources will be presented by academic, industry, and government researchers. Students will have the opportunity to conduct short experiments on Argonne's Advance Photo Source and Oak Ridge's Spallation Neutron Source and High Flux Isotope Reactor.

Key date: February 28, 2011, electronic application due.

Details: <http://www.dep.anl.gov/nx>

NCURA publishes papers by UT Office of Research staff

Two staff members in the UT Knoxville Office of Research have had articles printed in publications of the National Council of University Research Administrators. **Robert Porter**, director of research development for the office, had an article titled "Can We Talk? Contacting Grant Program Officers" published in the most recent issue of "Research Management Review." **Robin Witherspoon's** article, "The Export Control Management and Compliance Program," appeared in NCURA Magazine. Witherspoon is the export control officer for the UT Knoxville campus. Sponsored-programs administrator **David Smelser's** article on preparing large grant proposals was published in a prior issue.

Recognitions

Seven UT Knoxville faculty have been named fellows of the American Association for the Advancement of Science, including

Richard Jantz, professor emeritus of anthropology;

Larry McKay, professor of earth and planetary sciences;

Pamela Small, professor emeritus of microbiology;

Soren Sorensen, professor and head of physics;

Kenneth Stephenson, professor of mathematics;

Gregory Stuart, professor of psychology;

Xiling Xue, professor of chemistry.

Bradley Fenwick, professor of pathology in the College of Veterinary Medicine and former vice chancellor for research to the Knoxville campus, was also named a fellow. The AAAS honor recognizes distinguished scientific or social efforts to advance science or its applications.

William Weber, Governor's Chair professor in materials science and engineering was elected a 2010 fellow in the American Physical Society.

Janice Musfeldt, professor of chemistry, has been elected to chair the national users executive committee for the National High Magnetic Field Laboratory at Florida State University. She also co-chairs MagLab's external advisory committee.

Naima Moustaid-Moussa, professor and co-director of the UT Obesity Research Center, was recently elected basic/experimental councilor by the members of the Obesity Society. She will serve on the Obesity Society's council and its executive committee.

Wesley Baldwin, professor of cello in the School of Music, has been awarded an Individual Artist Fellowship from the Tennessee Arts Commission. This award provides fellowships to outstanding professional artists who live and work in Tennessee. Only two musicians were selected this year to receive the award.

Jay Frankel, professor in mechanical, aerospace, and biomedical engineering, recently received the Gen. H.H. Arnold Award for outstanding personal contributions to the advancement of thermal analysis in harsh rocket environments and high-speed propulsion systems and will be the technical chair for thermophysics at the 50th Aerospace Science Meeting in January 2012.