

Positions Available



West Virginia University
TENURE-TRACK POSITION
 Science/Engineering Educator
 WVNano/West Virginia University

West Virginia University invites applications for a tenure-track faculty position in science education research. The successful applicant will develop a research program to determine effective teaching strategies for STEM subjects at the primary, secondary, and/or collegiate levels. This program should include development and assessment of innovative outreach and education activities both in student learning and student recruitment/retention to STEM majors and careers. It is desirable that the candidate focus on introducing nanoscience and engineering concepts to students, including the ethical and societal ramifications of these fields. The successful candidate will have graduate training or professional experience in education research as well as graduate coursework in a STEM discipline. A doctoral degree is required. Appointments at the level of Assistant Professor are expected, although higher ranks, commensurate with the applicants' record and experience, will be considered. More information may be found at <http://wvnano.wvu.edu/opportunities>.

West Virginia University (<http://www.wvu.edu>) is a comprehensive land grant research institution with comprehensive health sciences enrolling over 28,000 students in 113 degrees programs. These positions are enabled by WVNano (<http://wvnano.wvu.edu>), WVU's nanoscale science, engineering, and education initiative and the Colleges of Arts and Sciences, Engineering, and Mineral Resources, and the Schools of Medicine and Pharmacy. The successful candidates will be appointed in the academic departments with which they have the strongest disciplinary synergy, and will serve an integral role within WVNano. In addition to start-up resources, state-of-the-art chemical, biochemical, computational, growth, fabrication, microscopy, and characterization facilities are available through WVNano. The successful candidates are expected to develop a vigorous extramurally funded research program to build effective interdisciplinary collaborations, and to be excellent teachers.

Interested candidates must send a letter of application, a CV, a statement of research interests, and a statement of teaching philosophy in a single pdf file to nanosearch@mail.wvu.edu (subject line: Education Faculty Search). The applicants must also arrange for three letters of recommendation to be sent to the same email address. Review of completed applications will begin immediately and the positions will remain open until filled.

West Virginia University is an affirmative action, equal opportunity employer dedicated to building a culturally diverse and pluralistic faculty and staff committed to teaching and working in a multicultural environment. Applications are strongly encouraged from women, minorities, individuals with disabilities, and covered veterans. Dual career couples are also encouraged to apply. For further information, contact David Lederman, WVNano Interim Director at David.Lederman@mail.wvu.edu (queries only). This announcement can be made available in alternative format.



TENURE-TRACK FACULTY POSITION
Advanced Cementitious Materials
Edward and Linda Rice
Endowed Chair
University of California, Los Angeles

The Department of Materials Science and Engineering at UCLA invites applications for a full-time ladder faculty position at the Assistant/Associate Professor level. The emphasis of this endowed chair position is on developing new materials for civil engineering applications seeking, for example, significant extension of structure life. An interest in the advancement of the science and applications of advanced cementitious materials is highly desired. It is important that candidates have demonstrated outstanding research on the applications of cementitious materials in the construction industry. The individual appointed to the position should have a record of journal publications in the field along with teaching and/or industrial experience. The candidate's appointment will be in the Department of Materials Science and Engineering, although a joint appointment in the Civil and Environmental Engineering Department will also be possible. Technical consultation with local industry is available and encouraged. UCLA offers a competitive relocation package. All qualified applicants are encouraged to apply, including minorities and women.

Applicants should send their resume, list of publications, a research/teaching plan, and names of three referees to:

Search Committee in Cementitious
 Materials
 Department of Materials Science and
 Engineering
 The Henry Samueli School of
 Engineering and Applied Science
 3111 Engineering V
 University of California, Los Angeles
 P.O. Box 951595
 Los Angeles, CA 90095 1595

Applicants may also send their resume, list of publications, a research/teaching plan, and the names of three referees by e-mail to materials@seas.ucla.edu.

The University of California is an affirmative action/equal opportunity employer, and seeks candidates who are committed to a campus climate that supports equality and diversity.

Place Your Ad Today!

Contact **Mary E. Kaufold**
 at 724-779-8312
 or kaufold@mrs.org

Positions Available



MATERIALS RESEARCH ENGINEER
Materials and Manufacturing Directorate
Air Force Research Laboratory

The Ceramics Branch of the Materials and Manufacturing Directorate, Air Force Research Laboratory, Wright-Patterson Air Force Base, Ohio, is seeking a materials research engineer with one to five years of research experience to work in the area of behavior and life-prediction of ceramic matrix composites. The individual will lead the branch's efforts toward developing physics-based life models and determination of life-limiting mechanisms to predict the long-term durability of ceramic-matrix composites that are being targeted for a wide range of aerospace applications. Strong analytical skills and the ability to apply analyses to experimental data are required.

Responsibilities include conducting in-house research, external contract management, and assuming a leadership role for this area. The ideal candidate will have a background in ceramics or ceramic-matrix composites, fracture mechanics of brittle materials, composite fiber architectures, high-temperature environmental effects, mechanical testing methods, and analytical modeling. A doctoral degree in materials science engineering, or similar discipline, with experience in the field of ceramic-matrix composite behavior is preferred. U.S. Citizenship is required.

For consideration, qualified candidates should submit resumes to michael.cinibulk@wpafb.af.mil.



PROGRAM DIRECTOR
Electronic and Photonic Materials Program
Division of Materials Research
National Science Foundation

The National Science Foundation's Division of Materials Research (DMR) is seeking highly qualified applicants for the position of Program Director for the Electronic and Photonic Materials (EPM) Program. The position will be filled on a non-permanent basis for one to three years as a federal temporary appointment, as a visiting scientist (VSEE), or under the provisions of the Inter-governmental Personnel Act (IPA).

Within the Division, the goal of the EPM program is to advance the field of electronics and photonics through basic, potentially transformative materials science research. The scope of the program encompasses the discovery and understanding of materials and material combinations with potential for major technological advantages. Program focus is on identification and understanding of fundamental atomic and molecular level mechanisms and phenomena associated with synthesis and processing of electronic and photonic materials. For example, novel materials are sought that may offer new paradigms in critical computing and communication components, or enable low cost, highly efficient, and stable photovoltaics, solid state lighting, and displays. Research topics include, but are not limited to, nucleation and growth of thin films and nanostructures; synthesis, self-assembly; nanostructure definition and etching processes; interface bonding and structure; crystal and interface defects; doping; bulk crystal growth; and interrelationships between synthesis/processing, structure, and properties. Further information about the EPM program can be found on the DMR website at <http://www.nsf.gov/materials>.

Appointees are expected to work with the materials research community to broaden the diversity of participants in NSF programs, and to integrate research and education in the field. Applicants must have a PhD degree or equivalent experience in solid state physics, physical chemistry, materials science or a closely related field, and experience in the electronics and photonics fields. In addition, six or more years of successful research experience, research administration, and/or managerial experience pertinent to the EPM program are required.

Applicants should refer to vacancy number E20090036-Rotator and should follow the application instructions located on the NSF Home Page at www.nsf.gov/about/career_opps/. Applications must be received by **April 30, 2009**.

NSF is an Equal Opportunity Employer

Endowed Energy Research Chairs

University of Central Florida's

FLORIDA SOLAR ENERGY CENTER*



Creating Energy Independence

The Florida Solar Energy Center (FSEC) invites applications or nominations for three endowed energy research chairs in the areas of: photovoltaic device research, alternative fuels (hydrogen or thermo-chemical conversion of biomass), batteries, energy storage or PEM Fuel Cells. Chairs will lead University of Central Florida's energy faculty toward energy independence for Florida and the nation.

FSEC is the largest and most active state-supported renewable energy and energy efficiency research institution in the U.S. FSEC is located in a state-of-the-art 15-acre office and laboratory complex, including 25,000 ft² of laboratory space with an additional 12,000 ft² under development.

Visit our site for more information:
<http://www.fsec.ucf.edu/en/research/>

Endowed chair and multiple faculty openings can be seen at:
www.floridaenergycenter.org/go/jobs

Review of candidates will begin on March 15, 2009 and will continue until all positions are filled. Send letter (electronic preferred) and curriculum vitae, summaries of research, teaching and other relevant experience to:

Director, Florida Solar Energy Center,
 1679 Clearlake Road, Cocoa, FL 32922
 (please e-mail to FacultySrch@fsec.ucf.edu).

The University of Central Florida hires U.S. citizens and lawfully authorized alien workers who can prove employment eligibility within three days after hire. As an agency of the State of Florida, UCF makes all search records, including transcripts, available for public review. UCF is an Equal Opportunity/ Equal Access/Affirmative Action Employer.



POSTDOCTORAL FELLOWSHIPS
Molecular Electronics of DNA
Harvard University

Postdoctoral position for individuals with skills in nanoscale fabrication, characterization, and design of solid state devices for electronic single molecule studies. Background in materials science/physics/biophysics preferred. For details go to <http://www.physics.harvard.edu/people/facpages/golovchenko.html> or http://www.mcb.harvard.edu/Faculty/faculty_profile.php?f=daniel-branton and click on Nanopore Group.

To apply, please send a CV and cover letter describing your relevant background to Ms. Jane Salant, Harvard University, Physics Department, 17 Oxford Street, Cambridge, MA 02138, e-mail: jsalant@harvard.edu.

Harvard University is an affirmative action/equal opportunity employer

Positions Available



DEPUTY DIRECTOR Division of Materials Research National Science Foundation

NSF's Division of DMR seeks candidates for the position of Deputy Division Director. The incumbent provides leadership and management to the Division's programs and assists the Division Director in carrying out Division-wide responsibilities such as preparation of budget submission for Congress and recruitment of scientific staff. Information about the Division's activities can be found at <http://www.nsf.gov/div/index.jsp?div=DMR>.

Appointment to this Senior Executive Service position may be on a career basis, or on a one-to-three year limited term basis, with a salary range of \$153,200 to \$169,826. Alternatively, the incumbent may be assigned under Intergovernmental Personnel Act (IPA) provisions.

Announcement S20090033, with position requirements and application procedures are posted on NSF's Home Page at http://www.nsf.gov/about/career_opps/.

Applicants may also obtain the announcement by contacting the Executive Personnel Staff at 703-292-4367. Hearing impaired individuals may call TDD 703-292-8044. Applications must be received by **May 31, 2009**.

NSF is an Equal Opportunity Employer.



FACULTY POSITIONS College of Engineering and Computing University of South Carolina

The College of Engineering and Computing at the University of South Carolina invites applications for two tenure-track faculty members to be part of an existing cluster of faculty with research and teaching expertise in the area of Solid Oxide Fuel Cells (SOFCs). Applicants with technical expertise that relates to SOFC science, engineering, and technology are welcome. Areas of special interests include, but are not limited to synthetic and natural fuels; fuel reforming; high temperature electrolysis (of water and carbon dioxide); infiltration, ceramic processing, and manufacturing; multi-scale and multi-physics modeling; solid-state electrochemistry and electrochemical characterization; surface science and interface modeling; high temperature corrosion; CO₂ sequestration technologies; energy system-level modeling and optimization; and nano-structure design of heterogeneous functional material systems.

Duties are to develop a strong educational and externally funded research program in collaboration with the Director of the SOFC Fuel Cell Program (Reifsnider@cec.sc.edu). Candidates should submit an application letter, professional vita, future research plans, teaching interests, and names of three references to: SOFC Search Committee, Mechanical Engineering Department, University of South Carolina, Columbia, SC 29208; or email to odonnemc@enr.sc.edu. Review of applications begins immediately until the position is filled.

The University of South Carolina is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.



MICROSCOPIST AND FACILITY MANAGER Center for Electron Microscopy and Nanofabrication Portland State University

Portland State University seeks a Facility Manager for its Center for Electron Microscopy and Nanofabrication. The facility includes TEM, SEM, and FIB microscopes.

Responsibilities include:

- Managing the Center for Electron Microscopy and Nanofabrication facility.
- Contacting and visiting organizations in the area to strengthen ties with PSU and develop external users.
- The incumbent will train and assist faculty, students, and outside users.
- This position will supervise an assistant manager, an accounting assistant, graduate assistants, and student workers.
- This position reports to the Director of the Center for Electron Microscopy and Nanofabrication.

The Facility Manager will hold the faculty rank of research assistant professor, research associate professor, or research professor, depending on qualifications and experience. Depending on the incumbent's interests and available funding, the Facility Manager may teach classes in microscopy. The Facility Manager may work on his/her own or other principal investigator's research projects as opportunities and funding are identified.

For more details on responsibilities, preferred qualifications, and how to apply, please visit http://www.pdx.edu/hr/faculty_administrative_openings or e-mail CEMN_search@pdx.edu.

PSU is an AA/EEO institution and welcomes applications from diverse candidates and candidates who support diversity.

Mark Your Calendar!



Upcoming Meetings and Workshops of Interest to the Materials Research Community

May 3-7, 2009

International Conference on Neutron Scattering (ICNS 2009)

Hosted by the Neutron Scattering Society of America
Knoxville Convention Center
Knoxville, Tennessee, USA

June 7-11, 2009

New Diamond and Nano Carbons Conference (NDNC 2009)

Grand Traverse Resort & Spa
Traverse City, Michigan, USA

July 6-9, 2009

Organic Microelectronics & Optoelectronics V

A joint Workshop of ACS · IEEE · MRS
San Francisco Marriott Hotel
San Francisco, California, USA

For more information visit www.mrs.org/meetings