Positions Available

FACULTY POSITIONS
Materials Science and Engineering
University of Wisconsin–Madison

The Department of Materials Science and Engineering at the University of Wisconsin-Madison seeks new faculty at all levels. Successful candidates will develop an internationally recognized research program, demonstrate leadership in attracting extramural funding, dedicate themselves to excellence and innovation in both undergraduate and graduate education, and provide service to the profession. We seek outstanding faculty pursuing theoretical, computational, and experimental research in areas including structural, biological, energy-related, and electronic materials.

UW-Madison offers world-class research opportunities, including interdisciplinary collaborative research centers and exceptional facilities for materials characterization, computation, and nanofabrication (www.engr.wisc.edu/mse/facultysearch). The University is committed to assisting candidates in achieving the highest levels of accomplishment.

Applicants for tenure-track positions must provide a curriculum vitae, plans for teaching and research in materials science and engineering (each two pages maximum), and three letters of reference. Candidates for tenured positions must provide curriculum vitae, teaching and research statements, and contact information for five references. All materials should be sent electronically to mse.applications@engr.wisc.edu.

Unless confidentiality is requested in writing, information regarding applicants must be released upon request. Finalists cannot be guaranteed confidentiality. Review of applications is ongoing and will continue until the positions are filled.

UW-Madison is an equal opportunity/affirmative action employer.

DIRECTOR
Composites R&D Center
The University of Southern Mississippi

The Center's director will build and maintain a Composites Research and Development (R&D) Center within the School of Polymers and High Performance Materials at The University of Southern Mississippi. The person is specifically responsible for the general management of the new composite R&D Center and includes grant and contract performance, financial performance, staffing, project management, and outreach. The Center will support multiple R&D projects with faculty in aerospace, civil, marine, and defense composites technology, particularly focused on the needs of the Office of Naval Research and current funding obligations. The director will continue to develop recognition, vision, and strategic planning for the composites R&D Center in alignment with the school. The person will recruit researchers and other personnel necessary for the Center's operation and growth, and will actively pursue external funding sources. The primary goal is for the Center to become self-sustaining within two years.

A PhD degree in polymer chemistry, polymer engineering, materials science, organic chemistry, chemical engineering, or related field is preferred; a Master of Science or Bachelor of Science with equivalent experience will be considered. Resumes should be submitted to deborah.witherby@usm.edu.

The University of Southern Mississippi is an AA/EOE/ADA Institution.

DEPARTMENT OF MATERIALS SCIENCE & ENGINEERING

FACULTY POSITIONS

The Department of Materials Science and Engineering at the University of Pennsylvania (http://www.seas.upenn.edu/mse/) will be making new faculty appointments over the next few years.

Presently the search focuses on **(a) mechanical behavior of materials** and **(b) structural analysis of materials, emphasizing advanced scattering techniques for static and dynamic characterization.**

Outstanding candidates at all levels will be considered. Successful candidates will be committed to excellence in undergraduate and graduate teaching, in particular curriculum development related to nanomaterials. They will also conduct leading edge research programs benefiting from Penn's strong interdisciplinary tradition and multi-school research institutes, including the NSF-funded Materials Research Science and Engineering Center and Nanoscale Science and Engineering Center, and the Institute of Medicine and Engineering.

Applications (CV, statement of research and teaching interests, and names of three references) should be submitted online at:

http://www.seas.upenn.edu/mse/jobs

Applications submitted by mail will not be accepted.

Deadline for submission: December 7, 2007

The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer

Department Chair
Materials Science and Engineering

The Department of Materials Science and Engineering at the University of Delaware continues to expand and invites applications for the position of Department Chair. The candidate should have a substantial and vibrant research program in the area of Electronic and Magnetic Materials, Polymers, Nanoscale Materials, Materials Chemistry, or Biomolecular Materials. This will be an appointment at the rank of Full Professor, and exceptional candidates will be considered for appointment as a Named Professor. The successful candidate must demonstrate a world-class research program that leads collaborations with existing materials-based groups within the university, externally and in local industrial and government labs. Demonstrated evidence of leadership in leading groups of faculty in large group proposals and experience in organizing workshops, meetings or conferences would be beneficial. For more information please visit

www.mseg.udel.edu

Applicants should send a resume, a description of proposed research and three letters of recommendation to Professor Robert L. Opila, Chair, Faculty Search Committee, c/o Rachel Coates-Knowles, Department of Materials Science and Engineering, DuPont Hall - Room 201, University of Delaware, Newark, DE 19716. The Search Committee will begin to review applications on November 30, 2007. The curriculum vitae and all application materials shall be shared with departmental faculty.

The UNIVERSITY OF DELAWARE is an Equal Opportunity Employer which encourages applications from Minority Group Members and Women.

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Positions Available

University of California
LAWRENCE LIVERMORE NATIONAL LABORATORY
Science in the National Interest

LAWRENCE POSTDOCTORAL FELLOWSHIP

The Lawrence Livermore National Laboratory (LLNL) has openings available under its Lawrence Fellowship Program. This is a highly desirable, prestigious postdoctoral position with ample resources and freedom to conduct cutting-edge research in a field of the candidate's choice. The duration of the Fellowship is up to three years. Typically two to four openings are available each year. Fellowships are awarded only to candidates with exceptional talent, credentials and a track record of research accomplishments.

Candidates will do original research in one or more aspects of science relevant to the mission and goals of LLNL which include: Physics, Applied Mathematics, Computer Science, Chemistry, Material Science, Engineering, Environmental Science, Atmospheric Science, Geology, Energy, Lasers and Biology. Successful candidates may participate in experimental or theoretical work at LLNL, and will have access to LLNL's extensive computing facilities, specialized laboratory facilities and field equipment. A senior scientist will serve as a mentor to each of the Fellows. The candidates will receive full management and administrative support. The salary is $8,092/mo.

Please refer to our web page **http://fellowship.llnl.gov** for eligibility requirements and instructions on how to apply. When applying and prompted, please mention where you saw this ad. The deadline for application is November 2, 2007. LLNL is operated by the University of California for the National Nuclear Security Administration/Department of Energy. We are an Equal Opportunity Employer with a commitment to workforce diversity.

Lawrence Livermore National Laboratory

http://fellowship.llnl.gov

CABOT

MATERIALS SCIENTIST
Cabot Superior MicroPowders

Cabot is a leading US (Albuquerque, NM) materials solutions provider. Cabot leverages its technical core competencies delivering advanced materials systems for a variety of markets and applications. Cabot has developed a manufacturing process for powders that provides unique characteristics that are not achievable by other manufacturing processes. Cabot's Security Materials business uses it proprietary manufacturing processes and material science skills to create hard-to-replicate materials with unique optical and spectral properties. We value integrity, respect, innovation, and competitiveness. As part of Cabot's growth plan, we are seeking applicants to fill the following position:

MATERIALS SCIENTIST — JOB CODE: SEC 4

Description: Develops creative solutions for security market segments by combining knowledge of applications with understanding of CSMP's materials and process platform technologies.

Desired Level of Education: PhD degree in Materials Science or Chemistry with three years of industrial experience in product development, or a Masters degree in Materials Science or Chemistry with five years of industrial experience in product development.

Desired Skills: Excellent scientific and technical knowledge of the synthesis and characterization of materials with hands on experience in product development and application. Experience measuring and interpreting the spectroscopy of luminescent materials. Prefer candidates with industrial experience in manufacturing, developing, and optimizing luminescent materials.

CSMP offers competitive pay, an attractive benefits package, and career advancement opportunities. For prompt confidential consideration, please submit your resume and cover letter, including salary requirements, on our website at www.cabot-corp.com.

CSMP is an EO employer

BROWN

FACULTY POSITION
Division of Engineering
Brown University

The Division of Engineering at Brown University invites applications for a faculty position at the rank of Assistant Professor (tenure-track), Associate Professor (tenured), or Professor (tenured) in the general areas of NanoEngineering. This position is part of the University's Institute for Molecular and Nanoscale Innovation. The preferred start date is July 01, 2008. To guarantee full consideration, all application materials including at least three references should be received by **December 1, 2007**.

We invite applications from outstanding engineers or engineering scientists whose area of expertise and scholarly interests lie in the area of nanoscience and include one or more of the important interdisciplinary aspects: nanophotonics, biomolecular engineering and devices, nanoelectronics, nanoscale materials and structures, nanomaterial interactions with biological materials and systems, and nanofluidics. Applicants for the position must have a PhD degree or postdoctoral training in electrical engineering, optics, biomedical engineering, material sciences, chemical/fluids sciences and engineering, or physics. Assistant professor applicants must demonstrate potential for outstanding research and teaching. Preference will be given to those candidates with postdoctoral experience. Associate and (Full) professor applicants should have an outstanding record of research accomplishment and scholarly achievement, with concomitant strong evidence of emerging or realized leadership in their field.

All candidates should submit a complete curriculum vitae, publication list, and statement of research plans and requirements to the search committee chair, Jimmy Xu, Professor of Engineering and Physics, Division of Engineering, Brown University, Providence, RI 02912, USA. Additionally, Assistant Professor applicants should have three letters of reference sent to the Search Committee chair. Associate Professor and Full Professor applicants should provide the names of at least five references from whom letters can be solicited.

Women and candidates who are members of minority groups are encouraged to apply. Brown University is an Equal Opportunity Affirmative Action employer.

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Positions Available

RESEARCH ASSOCIATE/RESEARCH SCIENTIST
Center for Nanoscale Science & Engineering
North Dakota State University

Immediate opening available for a Research Associate/Research Scientist at the Center for Nanoscale Science & Engineering at North Dakota State University (www.ndsu.edu/cnse). Requirements include a PhD degree in Mechanical Engineering, Materials Science & Engineering, Chemistry, Chemical Engineering, Physics, Electrical Engineering, or related field; experience depositing hard coatings via one or more of the following methods: sputtering, plasma, CVD, thermal spray, laser cladding, or other applicable methods; experience correlating micro structural and compositional characterization of hard coatings with tribology/wear properties (i.e., structure-property relationships); strong publication record in peer-reviewed journals; good interpersonal and team building skills; good oral and written communication skills; proficient computer skills; and ability to prepare or assist in the preparation of proposals for follow on funding. Salary is commensurate with experience plus excellent benefits.

For further information and qualifications, including how to apply, see www.ndsu.edu/ndsu/jobs/non_broadbanded/positions/00025341.shtml.

An equal opportunity institution.

UNIVERSITY OF MARYLAND

FACULTY POSITION
Department of Chemistry and Biochemistry
University of Maryland

Materials Chemistry: All Levels Tenure-track or Tenured Positions

The Department of Chemistry and Biochemistry is expanding its faculty in materials chemistry. We seek innovative scholars with interests that complement existing programs in supramolecular chemistry, soft materials, solid-state chemistry, and nanoscience. Candidates should desire to participate in the University's existing materials research community. Successful applicants must be committed to developing outstanding academic programs at both the graduate and undergraduate level. The department's faculty participate in interdisciplinary centers such as the University of Maryland Energy Research Center, the Maryland NanoCenter, the NSF-funded Materials Science and Engineering Center, the Center for Bioinformatics and Computational Biology, the Institute for Physical Science and Technology, and the Center for Biological Structure and Organization. The University of Maryland, College Park is the flagship campus of the University of Maryland System and has state-of-the-art materials synthesis and analysis facilities in TEM, SEM, XRD, XPS, NMR, and nanofabrication. The campus is situated just outside of Washington, DC and is close to many National Labs, including NIH, NIST, FDA, NASA, and NRL.

Candidates should submit a curriculum vitae, a 3-page summary of research plans, a statement of educational interests, and contact information for three references. Electronic submission of application through the department's web page is required; access http://www.chem.umd.edu/employment.html.

Qualifications: We seek scholars that will develop cutting-edge materials research programs and have a commitment to excellence in undergraduate and graduate education. A PhD degree in chemistry or related field, significant research accomplishments, and a commitment to teaching are all required.

Deadline: Review of applications will begin **October 15, 2007**

An Equal Opportunity, Affirmative Action Employer.
Applications for women and minorities are encouraged.

UNIVERSITY OF DELAWARE

Faculty Positions in Mechanical Engineering (all ranks)

The Department of Mechanical Engineering invites nominations and applications for three tenure-track faculty positions at the ranks of assistant professor, associate professor or full professor. We are interested in candidates in any discipline of Mechanical Engineering but have particular interests in developing our research in the general areas of nanotechnology/nanocomposites, bioengineering, clean energy and robotics/controls.

Our Center for Composite Materials, which boasts $8M of research funding per year and 240 affiliated faculty, staff, post-docs, graduate and undergraduate students and interns provides a forum for nanotechnology research. Other nanotechnology initiatives are supported by a fully equipped new state-of-the art 7,000 sq ft clean room for nano-fabrication.

Bioengineering activities are closely coupled to our Center for Biomedical Engineering Research, which has 33 associated faculty members and many NIH grants, including an $11M NIH Center for Biomedical Research Excellence award. In addition, the inter-disciplinary effort at the Delaware Biotechnology Institute encompasses research, education, and economic development in the life sciences with emphasis on human health, complex environmental systems and biomaterials. This $120M initiative involves a 72,000 sq ft state-of-the-art biotechnology facility.

The solar, fuel cell and other clean energy research at UD is world renowned, having over $9M/year in research expenditures, and supported by state-of-the-art fabrication facilities.

Applicants should hold a Ph.D. in mechanical engineering, or closely related sciences. Successful candidates are expected to have demonstrated excellence in innovative research and show the potential for high quality teaching and mentoring.

Applicants should send curriculum vitae, a statement of research and teaching interests and achievements, and a list of at least four references to ME-search@udel.edu (preferred); or by mail to ME Faculty Search Committee, 126 Spencer Laboratory, University of Delaware, Newark, DE 19716. Application deadline is February 1, 2008.The curriculum vitae and all application materials shall be shared with departmental faculty.

The UNIVERSITY OF DELAWARE is an Equal Opportunity Employer which encourages applications from Minority Group Members and Women.

Unlock Your Potential at PPG

At PPG Industries, we are committed to providing a fulfilling work place for our employees, creating an environment for continuous learning and embracing the ideas and diversity of others. PPG provides a spectrum of opportunities to work in an endless variety of disciplines. We currently have the following position available in our Substrate Protection department at the Coatings Innovation Center in Allison Park, Pennsylvania:

Materials Scientist
Pittsburgh, PA

Responsibilities include coordinating all materials characterization efforts relating to new and existing substrate protection coatings formulations. The ideal candidate must be a self-starter and have excellent communication and teamwork skills.

A Ph.D. in Materials Science, Chemical Engineering or Physical Chemistry is required. To be eligible for this role, you must be authorized to work permanently in the United States and will be required to successfully pass a drug/toxins test and background check.

PPG Industries, Inc. offers an excellent compensation and benefits package. To learn more and to apply for this position, please visit our web site at:

www.ppg.com

EOE

PPG Industries

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Positions Available

Masdar Institute of Science and Technology Abu Dhabi United Arab Emirates

PROFESSORS
ASSOCIATE PROFESSORS
ASSISTANT PROFESSORS

The Masdar Institute of Science and Technology (Masdar Institute), with the assistance and advice of the Massachusetts Institute of Technology (MIT), is being founded as a new and independent non-profit, tax-exempt research and educational institution (initially at the graduate level) dedicated to premier engineering research and education. The goal of the Institute is to develop, over a period of years, indigenous R&D capacity in Abu Dhabi, addressing issues of importance to the region in critical areas such as: renewable energy, sustainability, environment, water resources, and systems engineering and management, as well as to provide qualified men and women in the region with the opportunity to obtain graduate degrees in these technical fields.

The Masdar Institute is seeking applicants for Professor, Associate Professor, and Assistant Professor in the fields of Water Resources and the Environment, Engineering Systems and Management, and Information Technology.

Applicants should have a strong record of published research, experience in supervising graduate students, and relevant teaching experience. The applicant must be fluent in English. An earned doctorate in the relevant field is required. Relevant non-academic work experience would be an advantage. Job responsibilities will include teaching graduate courses, supervising master and doctoral students, developing a research program and seeking external funding for such research, and participating in the Institute's service and outreach activities. Applicants are being sought in the fields listed below:

Water Resources and the Environment

Faculty will provide research leadership and educational activities to engineering and science students concerned about the future of water supply and use, as well as an understanding of environmental systems. Specialists from Civil, Environmental, Mechanical, and Chemical Engineering are encouraged to apply, as well as faculty from other disciplines such as Chemistry, Materials Science, Biological Engineering, Electrical Engineering, Biology, and Nanotechnology, whose advanced scientific work may have implications for water and the environment, even if they have not directly worked in the water and environmental area. Candidates specializing in the area of desalination and advanced water reuse in such areas as polymer membranes, ceramic membranes, biological filtration, and new oxidation techniques will be considered, as well as experts in environmental systems methods such as life cycle analysis and in environmental sciences focused on fate and transport of pollutants in the environment and the mitigation and remediation of the impacts of new water and environment technologies.

Engineering Systems and Management

The Engineering Systems and Management program will provide intellectual research leadership and educational activities to students interested in applying a systems approach to the engineering and management of renewable and sustainable energy technologies. The Institute is looking for candidates in one of the following areas: Operations Research (Stochastic Modeling, Optimization, Decision Science, Simulation); Operations Management (Manufacturing, Technology Innovation); and Industrial Economics (Industrial Organization, Technology Policy, Economic Development).

Information Technology

Faculty candidates must be capable of teaching and conducting research in such IT areas as: Software Engineering; Information Processing for Engineering Systems; Database, Internet, and Systems Integration Technologies; Data Mining; Artificial Intelligence and Semantic Web; Communications and Connectivity among Information Systems; Information Management; Intelligent Systems; and Pervasive Computing. In addition, faculty are expected to effectively collaborate with other faculty areas such as Water Resources and the Environment, Materials Science and Engineering, Mechanical Engineering, and Engineering Systems and Management.

Application Submittal Information

The Massachusetts Institute of Technology is assisting the Masdar Institute in the search. Initial screening of applications will begin immediately. Application deadline is **November 30, 2007**. Application materials should include your name, address, telephone numbers, curriculum vitae and the specific position you are applying for, your current position, a description of how your experience matches the position requirements, and e-mail contact information for three references. Materials should be submitted electronically as a MS Word attachment to:

Dr. Russel Jones, President
Masdar Institute of Science and Technology
Abu Dhabi, United Arab Emirates
Co-Chair, Search Committee for Masdar Institute
of Science and Technology
E-mail: rjones@masdar.ae

Also please send a copy to:
Dr. Fred Moavenzadeh, Co-Chair
Search Committee for Masdar Institute
of Science and Technology
c/o Technology and Development Program
Massachusetts Institute of Technology
E-mail: tdpmail@mit.edu

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Positions Available

POSTDOCTORAL RESEARCH POSITION
Nanoparticle Enhanced Fluorescence
University of Maryland

We are seeking a Postdoctoral Research Associate to carry out investigations on enhancements in molecular fluorescence by Ag nanoparticle arrays leading to an understanding of how the optimum enhancement depends on the particle shape and spacing, and interactions with the substrate. This work will involve both electron beam lithography based fabrication and aerosol techniques for rapid assembly of nanoparticle arrays. Studies will be carried out using a scanning laser fluorescence microscopy, in addition to AFM and SEM based metrology.

The qualified candidate must have a PhD degree in Physics, Materials Science, Chemistry, Electrical Engineering, or a related field. US citizenship is required. Interested candidates should contact Professor Ray Phaneuf, Department of Materials Science, University of Maryland, College Park, MD 20742; 301-935-6472; phaneuf@lps.umd.edu.

The University of Maryland is an equal opportunity employer.

CLEMSON UNIVERSITY

FACULTY POSITIONS
Materials Physics: Experimental and Theoretical
Department of Physics and Astronomy
Clemson University

The Department of Physics and Astronomy of Clemson University invites applications for a tenure-track position, anticipated to begin in the academic year 2008-2009. Candidates in experimental and theoretical Condensed Matter/Materials Physics who complement our expertise in Alternative Energy Materials, such as novel materials for thermoelectric and solar energy applications, are particularly encouraged to apply. However, priority will be given to candidates with expertise in the characterization of materials using neutron diffraction, X-Ray, and/or Rietveld analysis.

The successful candidate should be willing to work as part of a larger team, but will also be expected to establish independent programs and to seek and obtain extramural independent research support. Extensive facilities for electrical and thermal transport measurements, spectroscopic, and materials characterization are available. We anticipate that this position will be filled at the assistant professor level, but higher ranks can also be considered. Applicants must have a PhD degree in Physics or a related field and possess good communication and teaching skills at both the undergraduate and graduate level.

Applications should include curriculum vitae, a list of publications, and contact information for three references. Address applications to: Materials Physics Search Committee, Department of Physics and Astronomy, Clemson University, Clemson, SC 29634-0978, indicating theory or experiment on the envelope. To receive full consideration, applications should be received by **November 30, 2007**. The search will continue until the positions are filled. Outstanding candidates in other areas may be considered for potential faculty positions. Further details about the department and the talents we seek in filling these positions can be found at http://physics.clemson.edu/. Clemson University is the land-grant university of South Carolina and rests at the foothills of the beautiful Blue Ridge Mountains.

Clemson University is an AA/EEO employer and does not discriminate against any person or group on the basis of age, color, disability, gender, national origin, race, religion sexual orientation, or veteran status.

Massachusetts Institute of Technology

It takes everyone at MIT to be MIT.

Assistant/Associate Professor

The Department of Materials Science and Engineering at MIT invites applications for a tenure-track faculty position at the assistant/associate professor level, to begin July 2008. Applicants must have an earned PhD in Materials Science and Engineering or a related science or engineering discipline. The successful candidate will be expected to develop a vibrant research program at the forefront of the field, and to harness his/her expertise in curriculum development and teaching at the undergraduate and graduate levels. Research areas of interest include but are not limited to: materials for energy applications, including novel solar energy systems, electrocatalysis, and electrochemistry; structured materials; materials processing, including green materials processing; crystal chemistry; materials chemistry; combinatorial materials science; soft, electronic, and computational materials science.

Applications submitted should include two copies of the following: a complete CV, a three-page statement of research and teaching interests, no more than three publications, and complete contact information for three references. Electronic submissions are preferred and may be e-mailed to: dmsejob@mit.edu. Applications sent by mail should be addressed to:

Department of Materials Science and Engineering, Attn: Esther Greaves Estwick, Rm 8-328, Massachusetts Institute of Technology, 77 Massachusetts Ave., Cambridge, MA 02139-4307. Applications received by November 30, 2007, will receive full consideration.

MIT has a strong and continued commitment to diversity in engineering education, research, and practice, and especially encourages applications from women and minorities. MIT is an Affirmative Action/Equal Opportunity Employer.

http://web.mit.edu

FACULTY POSITION
Theoretical Condensed Matter Physics
Wake Forest University

The WFU Physics Department (www.wfu.edu/physics) invites applications for a tenure-track position at the Assistant or early Associate Professor level to begin in August 2008. Candidates from all areas of theoretical condensed matter physics are encouraged to apply to join a department of 14 faculty members with expertise and collaborations in condensed matter physics, nanoscience, biophysics, optics, and gravitational physics. Excellence in undergraduate and graduate teaching of physics and establishment of an independent research program with external funding will be expected.

Applicants should submit a CV, a philosophy of teaching statement, a research plan, and request three references to send letters of recommendation to Chair, Search Committee, Department of Physics, Wake Forest University, Winston-Salem, NC 27109-7507. Consideration of applications will begin on **October 15, 2007**, and continue until the position is filled. See http://www.wfu.edu/physics/recruiting for more information.

Wake Forest University is an equal opportunity/affirmative action employer.

ASSISTANT PROFESSOR
University of California, Santa Cruz

We invite applications for a tenure-track position in Experimental Condensed Matter Physics including, but not limited to, materials science and biophysics. Successful candidate will be expected to build a strong research group, supervise graduate students, teach at both the undergraduate and graduate levels, and interact with other science and engineering faculty. For full position description and how to apply, please see http://physics.ucsc.edu/about/facrec.html.

EOE/AA

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Positions Available

ASSISTANT PROFESSOR
Department of Applied Science
College of William and Mary

The Department of Applied Science at the College of William and Mary seeks an outstanding experimentalist to fill a tenure-track Assistant Professor position in Materials Science. Applicants are required to have a PhD degree and a demonstrated potential for excellence in teaching and research. The successful candidate is expected to initiate and maintain a world class research program in areas such as quantum transport, nanoscale imaging, synthesis and processing of nanomaterials and nanostructures, self- and directed assembly of nanostructures, complex oxide heterostructures, organic optoelectronics, thin-film sensors and devices, and to interact with existing research programs (high-field NMR, photon-based/ultrafast characterization, carbon nanostructures, electronic and magnetic materials, and surface and thin film characterization). Existing special facilities include a new FEL-driven resonant IR PLD system, a PHI Trift-II ToF/SIMS, a Hitachi S-4700 SEM, and a Bruker 750 MHz solid state NMR, as well as a vast array of additional characterization instruments. Significant collaboration opportunities are available with Thomas Jefferson National Accelerator Facility, Eastern Virginia Medical School, and NASA Langley Research Center. In addition, William and Mary has a strong tradition of excellent teaching at the graduate and undergraduate levels, and the successful candidate will be expected to play an important role in the educational program of the Department of Applied Science.

Applicants must register with the on-line recruitment system at http://jobs.wm.edu. Only personal demographic information should be posted on this site. In addition, applicants should send a letter of application, curriculum vita, statement of professional interests, and arrange for at least three letters of recommendation directly to: Chair, Materials Science Search, Department of Applied Science, 314 McGlothlin-Street Hall, College of William and Mary, P.O. Box 8795, Williamsburg, VA 23187-8795. Review will begin on **January 15, 2008** and materials will be accepted until the position is filled. Further information on the W&M Applied Science Department can be found at http://www.as.wm.edu.

The College of William and Mary is an EEO/AA employer.

FACULTY POSITION
Theoretical Condensed Matter Physics
California State University, Northridge

The Department of Physics and Astronomy at California State University, Northridge, invites applications for a tenure-track position in theoretical/computational condensed matter physics and materials science. The appointment is expected to be at the Assistant Professor level and to begin in the Fall 2008 semester. Examples of areas of interest include electronic structure calculation, multiscale modeling, nano-science, and quantum transport. Applicants should have a PhD degree, preferably with postdoctoral experience, in Physics or closely related field, and a clear record of research accomplishments. In addition to their research, candidates should have a strong interest and ability to teach undergraduate and graduate courses in physics, and demonstrate a commitment to working with an ethnically and culturally diverse student population.

We seek candidates who can establish and maintain a vigorous independent research program, with potential for external funding. The normal teaching load is 12 contact hours per week during a nine-month academic year. It is anticipated that the University will provide reduced first-year teaching assignments. Release time from teaching is normally available to faculty members who carry out research with significant external support. The campus is located in a suburb of Los Angeles, in close proximity to other Universities and major research centers.

Applicants should submit a (1) cover letter, (2) curriculum vitae, (3) summary of research and teaching interests, and (4) arrange to have three letters of recommendation submitted to:

Chair, Condensed Matter Theory Search Committee
Department of Physics and Astronomy
California State University, Northridge
Northridge, CA 91330-8268

For full consideration, completed applications should be received by **January 14, 2008**. Review of applications will continue until the position is filled. Filling the position is subject to budgetary considerations. At time of appointment, the successful candidate, if not a U.S. citizen, must have authorization from the Bureau of Citizenship and Immigration Services to work in the United States.

California State University, Northridge is an Equal Opportunity/Affirmative Action employer.

FACULTY POSITION
Chemical Engineering Department
University of Louisville

Applications are invited for a tenure-track faculty position in the Chemical Engineering Department, University of Louisville, at the Assistant Professor level, with preferred starting date of July 1, 2008. Successful candidates will contribute to the core teaching mission of the department by teaching undergraduate and graduate courses in Chemical Engineering. The candidate is expected to develop a nationally-recognized, externally funded research program on micron-scale technology applied to the development of advanced materials, energy sources, drug delivery systems, chemicals, or sensors. His or her research should leverage the University's new class 100 microfabrication cleanroom facilities. The successful candidate will have a bachelor's degree in Chemical Engineering, an earned doctorate in Chemical Engineering or related field, and be proficient with oral and written communication skills in English.

Review of applications will begin **October 1, 2007** and will continue until the position is filled. Must apply only on-line at http://louisville.edu/jobs (Reference Job ID 21957) and provide curriculum vitae, contact information for at least three references, and a brief statement of research and teaching interests. For more information, please contact mahendra.sunkara@gmail.com or visit the department's web site at www.louisville.edu/speed/chemical, or other related websites at www.louisville.edu/micronano and www.louisville.edu/iamre.

Minority and female candidates are encouraged to apply. The University of Louisville is an equal opportunity, affirmative action employer.

FACULTY POSITION
Center for Manufacturing Research
Tennessee Technological University

The Center for Manufacturing Research at Tennessee Technological University is accepting applications for a tenure-track, Assistant Professor position in the research area of cost effective energy utilization technologies. The expected starting date is January 1, 2008. Screening of applications will begin **November 1, 2007** and continue until the position is filled. For complete requirements and application information, visit http://www.tntech.edu/jobs/ or contact the Center for Manufacturing Research, Tennessee Technological University, Box 5077, Cookeville, TN 38505; 931-372-3362.

AA/EEO

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Positions Available

ASSISTANT/ASSOCIATE PROFESSOR
Department of Materials Science and Engineering
University of Tennessee

The Department of Materials Science and Engineering at the University of Tennessee invites applications for a tenure-track faculty position at the Assistant or Associate Professor level. The successful candidate will be expected to develop strong externally funded research programs in an area of interest to the department, including, but not limited to: nanoscale materials synthesis and characterization, materials for advanced energy systems, high temperature materials, and computational materials science. These research areas are also emphasized by the nearby Oak Ridge National Laboratory, with which the department has strong research interaction. More details about the position and the department can be found at http://www.engr.utk.edu/mse/.

Applicants must hold a PhD degree in Materials Science and Engineering or closely related field and have an established record of excellence in their area of specialization. The successful candidate must be qualified to teach materials science and engineering courses at both the graduate and undergraduate levels, with special emphasis on thermodynamics, kinetics, phase transformations, materials engineering, and materials design.

Interested individuals should submit electronically a complete curriculum vitae, research plan, and summary of teaching interests (2-page maximum each), and the names and contact information (including e-mail addresses) of a least three references to: MSEsearch@utk.edu. Alternatively, these materials may be submitted to Professor Carl J. McHargue, Chair, Faculty Search Committee, Department of Materials Science and Engineering, 434 Dougherty Engineering Building, The University of Tennessee, Knoxville, TN 37996-2200. Screening will begin around **November 1, 2007** and will continue until the position is filled.

The University welcomes and honors people of all races, genders, creeds, cultures, and sexual orientations, and values intellectual curiosity, pursuit of knowledge, and academic freedom and integrity. The University of Tennessee is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA institution in the provision of its education and employment programs and services.

ADVANCED SCIENTIST
Semiconductor Physics or Materials Science
Pilkington North America

Pilkington is the world's leading supplier of glass and glazing systems to the automotive and building sectors. We have an immediate opening for an Advanced Scientist in the CVD Coatings R&D group at the Northwood, OH Technology Center. The primary duty is to identify and develop thin film coating materials for use in glazings, photovoltaics, and specialty applications. The required qualification is a PhD degree in Semiconductor Physics or Materials Science with 0 to 5 years of working experience. The role will entail working in laboratory and manufacturing environments as well as interfacing with universities and national research laboratories. The ability to use surface analysis techniques such as Auger/XPS is desired. The position may require up to 30% travel.

Qualified candidates should submit resume and salary history to: HR.Toledo@us.pilkington.com or mail to: Pilkington North America, Attn: J. Thompson, HR Dept., 2401 E. Broadway, Northwood, OH 43619. Reference Advanced Scientist 08-018.

Pilkington is an equal opportunity employer; M/F/D/V encouraged to apply.

SCANNING ELECTRON MICROSCOPIST
NU*ANCE* Instrumentation Center
Northwestern University

An immediate position is open for a scanning electron microscopist at the Electron Probe Instrumentation Center (EPIC) of Northwestern University. The EPIC facility (http://epic.ms.northwestern.edu) includes four SEMs (with varying accessories and capabilities including EDS, CL, lithography systems, hot/cold stages, etc.), three TEMs, and one FEI dual beam FIB.

Primary responsibilities include training new SEM users and supporting their skill development; providing technical support and collaborative assistance to users on their projects; and maintaining the facility and instruments and performing analysis for external users. Qualifications include a BS or equivalent technical training in science/engineering discipline. Desired skills include: strong computer and communication skills, some knowledge of modern electronics, and a background in physical sciences, preferably materials science and/or nanotechnology.

Please send documents, including a resume, list of three references, and salary requirements, electronically to nuance@northwestern.edu.

Northwestern University is an Equal Opportunity, Affirmative Action Employer. Members of historically underrepresented groups are strongly encouraged to apply.

UK UNIVERSITY OF KENTUCKY College of Engineering

FACULTY POSITIONS
Department of Chemical and Materials Engineering
University of Kentucky

The Department of Chemical and Materials Engineering at the University of Kentucky invites applications for two tenure-track MSE faculty positions at all levels and areas. Applicants should have a PhD degree in Materials Science and Engineering or a related discipline, the capability to develop a strong and nationally recognized research program, and a commitment to excellence in undergraduate and graduate education in Materials Science and Engineering. Senior-level applicants should have a highly visible record of professional service, curriculum development, and a strong research program.

There is a long tradition of Materials Research at UK. The Metallurgical Engineering curriculum was founded in 1918 and awarded the first PhD in the College of Engineering. Existing department strengths are in the areas of micro- and nano-mechanics, nano-scale materials fabrication, and smart materials. The University and Department are committed to the goal of achieving Top 20 status as one of the nation's preeminent public research institutions. In addition to the University's commitment to increase the Materials Engineering faculty, the Provost's office has committed to a two year renovation plan of the Materials Research laboratories.

Review of applications will begin immediately and will continue until the position is filled. Applicants should apply for the position online at http://www.uky.edu/HR/UKjobs (click on *Online Employment for Job seekers*, SEARCH POSTINGS and use Requisition #SP518380 for the assistant professor position and Requisition #SP518408 for the senior faculty position). More information on the department can be found at http://www.engr.uky.edu/cme.

The University of Kentucky is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

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Positions Available

TEXAS STATE UNIVERSITY
SAN MARCOS
The rising STAR *of Texas* ™

POSITIONS AVAILABLE • Materials Science and Engineering Program • Texas State University-San Marcos

Texas State University-San Marcos invites applications and nominations for the following positions in the Materials Science and Engineering Program. The proposed doctoral program in Materials Science and Engineering will be a multidisciplinary program involving faculty from several departments in the College of Science, including Chemistry and Biochemistry, Computer Science, Engineering, Physics, and Technology. The focus of the proposed program will be nanomaterials/nanotechnology.

DIRECTOR, MATERIALS SCIENCE AND ENGINEERING PROGRAM

The successful candidate will be expected to provide visionary leadership to guide the development of a proposed PhD program in materials science and engineering. The Director will oversee the development of the program proposal, the hiring of faculty, curriculum development, and assist the expansion of its research programs. The director is the chief officer of the program assuming a broad range of responsibilities, supported by an administrative assistant.

Qualifications: Candidates must have a PhD degree in Materials Science and Engineering, Chemistry, Physics, Engineering, or closely related field, must have a strong record of research, be nationally and internationally recognized, and must be eligible for a tenured appointment at the rank of professor. Preferred qualifications include previous administrative or management experience, experience working with multidisciplinary teams, experience with securing external funds, experience with teaching and research at a doctorate-awarding department, and documented commitment to work with diverse populations.

Application Procedures: The position is available beginning September 2008 or as soon as possible thereafter. Salary and start-up will be competitive and commensurate with qualifications. Applicants must submit a cover letter addressing how their qualifications meet the criteria for this position, a 2-page statement of mentoring and leadership philosophies (with useful illustrative examples), a 1-page proposed research plan, a curriculum vitae, and a list of four references to the address below.

FACULTY POSITIONS

The successful candidate will be expected to provide support, both through research and teaching, of the proposed PhD program in materials science and engineering. The faculty will also participate in the development of the program proposal, curriculum development, and assist the expansion of its research programs.

Qualifications: Candidates must have a PhD degree in Materials Science and Engineering, Chemistry, Physics, Engineering, or closely related field, must have a strong record of research, be nationally and internationally recognized, must have good oral and written English skills, and must be eligible for appointment at the rank of associate professor. Preferred qualifications include experience with securing external funds, research interests in nanomaterials/nanotechnology that complement existing programs in the College of Science, experience with teaching at the graduate level, experience supervising doctoral students, and documented commitment to working with diverse populations.

Application Procedures: The two positions are available beginning September 2008 or as soon as possible thereafter. Salary and start-up will be competitive and commensurate with qualifications. Applicants must submit a cover letter addressing how their qualifications meet the criteria for this position, a 1-page proposed research plan, a statement of teaching philosophy, a curriculum vitae, and a list of four references to the address below.

Texas State is a large university (over 27,000 students) with a commitment to quality instruction, an increasing emphasis on scholarship and research, and a goal to become a Hispanic Serving Institution. Information about the University can be found at ***www.txstate.edu****. Application materials, referencing the appropriate position, should be submitted to:*

Dr. David Donnelly, Chair
Materials Science and Engineering Program Search Committee
c/o Department of Physics
Texas State University-San Marcos
601 University Drive
San Marcos, TX 78666

Review of applications will begin on ***November 1, 2007*** *and continue until the position is filled.*

Texas State is an AA/EOE that encourages applications from underrepresented minority group members and women.

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Positions Available

UNC CHARLOTTE

DIRECTOR
Nanoscale Science PhD Program
University of North Carolina at Charlotte

The University of North Carolina at Charlotte is searching for an associate/full professor for the position of Director of its Nanoscale Science PhD program. UNC Charlotte has strong collaborative research programs in nano-related areas involving faculty from five departments (Biology, Chemistry, Electrical and Computer Engineering, Mechanical Engineering, and Physics and Optical Science) and four interdisciplinary Centers (Bioinformatics, Biomedical Engineering Systems, Optoelectronics, and Precision Metrology). This new PhD program in Nanoscale Science requires a director with an excellent and broad research record in the nanosciences who has the ability to direct an interdisciplinary doctoral program. The successful candidate will be required to bring together faculty from these departments and lead the growth of this PhD program, and should have the vision to use the program as a vehicle to fuel new cross-disciplinary research programs.

Applications must be made electronically at https://jobs.uncc.edu and must include a CV, the names and contact information of three references, and statements on research and teaching. Informal inquiries can be made to the Search Committee Chair, Prof. M.A. Fiddy, Center for Optoelectronics and Optical Communications, UNC Charlotte, Charlotte, NC 28223 or mafiddy@uncc.edu.

For full consideration, all application materials should be received by **November 1, 2007**. Review of applications will begin immediately and continue until the position is filled. Applicants may visit www.nanoscalescience.uncc.edu for more detailed information. UNC Charlotte is one of the largest and fastest growing research universities in the Southeast and is situated on a modern, attractive, thousand acre campus. UNC Charlotte's academic climate respects the dignity of all individuals and encourages diversity including, but not limited to, ability/disability, age, culture, ethnicity, gender, language, race, religion, sexual orientation, and socio-economic status.

The University of North Carolina at Charlotte is an EOE/AA employer and an ADVANCE Institution.

ASSISTANT PROFESSOR
Department of Physics
Kalamazoo College

The Department of Physics invites applications for a tenure-track appointment at the Assistant Professor level beginning September 2008. A PhD degree in experimental or applied physics is required; some postdoctoral and teaching experience preferred. Interdisciplinary PhDs will be considered if there is evidence of extensive coursework in physics. More information about the Physics Department can be found at www.kzoo.edu/physics and the complete job description can be found at www.kzoo.edu/provost/public/200804.htm. Completed applications received by **December 15, 2007** will receive full consideration.

Please send curriculum vitae; a statement describing teaching philosophy and experience; a statement describing research interests and how undergraduates would participate including an estimate for start-up costs; graduate and undergraduate transcripts (unofficial acceptable); and three letters of reference. Applications must be sent by regular mail to Peggy Cauchy, Office Coordinator, Department of Physics, Kalamazoo College, 1200 Academy Street, Kalamazoo, MI 49006. Kalamazoo College encourages candidates who will contribute to the cultural diversity of the College to apply and identify themselves if they wish.

EOE

A*STAR Institute of High Performance Computing

RESEARCH SCIENTIST POSITIONS
Institute of High Performance Computing
Singapore

The Institute of High Performance Computing (IHPC), a member of the Agency for Science, Technology and Research (A*STAR) in Singapore, invites applications for eight available positions for research scientists in the field of theoretical and computational mechanics and materials science. These positions are in conjunction with the A*STAR-sponsored Visiting Investigatorship Program (VIP) led by Prof. Huajian Gao from Brown University who is the Principle Investigator.

Successful candidates will be members of frontier projects on the studies of thin films, nanocrystalline materials, self-assembly of nanoscale materials, and hierarchical and multifunctional materials. They will also have the opportunity to work at Brown University as visiting scholars for an extended period according to research needs.

Specific qualifications are: 1) a PhD or equivalent degree in Mechanics, Materials Science, Physics, or a related discipline, 2) demonstrated ability to conduct scholarly research, as evidenced by a thesis or publications in top-tier international journals, and 3) the ability to make clear and effective oral and written presentations of scientific and technical information. Candidates with expertise in theoretical work, and modeling and computation of mechanical behaviors and properties of materials, are specifically encouraged to apply.

IHPC provides an intellectually stimulating environment, with key research projects in the domain of computational science and engineering (CSE), for modeling, simulation, and visualization of complex scientific and engineering problems across a wide span of industries, including chemical, manufacturing, electronics, and precision engineering. For more information about IHPC, please visit our website at www.ihpc.a-star.edu.sg.

Our remuneration is globally competitive, with benefits such as comprehensive medical insurance, vacation leave, dental, and flexible benefits packages. An application should include the following items:

- A complete professional CV, including educational background, experience, and a list of publications.
- Names, complete mailing addresses, telephone numbers, and e-mail addresses of three individuals who could provide letters of reference, if requested; unsolicited letters of reference should not be sent.
- Reprints of published papers (or manuscripts).
- A brief statement of research interests (no more than one page).

Please e-mail or fax your applications to the contact address provided below.

Dr. Chun Lu and Prof. Huajian Gao
Institute of High Performance Computing
1 Science Park Road, #01-01 The Capricorn
Singapore Science Park II, Singapore 117528
Email: luchun@ihpc.a-star.edu.sg; gaohj@ihpc.a-star.edu.sg
Fax: 65-67760972

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Positions Available

FACULTY POSITIONS
Materials Science & Engineering
University of Washington

The Department of Materials Science and Engineering at the University of Washington (MSE) seeks two, full-time faculty members to begin Autumn Quarter 2008—a tenured Kyocera Chair Professor and a tenure-track assistant professor.

POSITION 1 Kyocera Chair Professor

The holder of the tenured Kyocera Chair would be an eminent scholar and a well-known leader, with a wide network of national and international academic and industrial collaborations, in the field of materials science and engineering with a research focus on broadly defined areas such as ceramics and/or ceramic-based materials and systems. Although the search is open to all candidates with proven research accomplishments, the department wishes to hire an expert with research emphasis on molecularly engineered and chemically or biologically processed nano- and micro-structured ceramics or ceramic-based hybrids or composites towards wide-range applications including structural, electronic, photonic, magnetic, biomedical, or energy-related fields. The holder of the Kyocera Chair is expected to seize the leadership at the UW and regionally to bring the university activities to a higher level of excellence by combining the existing faculty expertise and strengths as well as leveraging the complementary capabilities in the College of Engineering and other relevant colleges. The Chair Professor is also expected to play an active role in the centers and institutes of both the MSE and CoE interests, such as "Molecular Engineering," UW-MRSEC, and the "Institute of Advanced Materials and Technology." A doctoral degree is required.

POSITION 2 Assistant Professor at the Materials/Biology Interface

The candidate for this tenure-track assistant professor position should have a record of published research at the materials and biology interface. The candidate is expected to have an excellent record of published research with a focus on topics including molecular-level interactions of materials with biological systems, nanomaterials fabrication as utility in technology and medicine, development hybrid bio-molecular materials/devices/systems that use biological molecules to perform sensing functions, utility of micro- and nano-electronics and/or photonics to accomplish signal detection and processing, and development of array technologies for rapid data acquisition, analysis, and diagnostics. The new member with expertise in nanomaterials and biology has ample opportunity to collaborate with researchers both on upper (Colleges of Engineering and Arts & Sciences) and lower campuses (Medical and Dental Schools) along with Institute of Molecular Engineering, the NSF-STC on Materials and Devices for Information Technology, the NSF-MRSEC on Genetically Engineered Materials Science and Engineering Center, the Engineered Biomaterials Research Center, and the NIH-funded Microscale Life Science Center. A doctoral degree is required. Candidates in the final stages of a doctoral degree program may be considered.

Information about the Department

The Department, College of Engineering, and the University of Washington are committed to excellence in both education and research. UW faculty engage in teaching, research, and service. Successful applicants for both positions will be expected to provide innovative and quality teaching that integrates research with instruction. They will be expected to teach both undergraduate and graduate courses within the Department and to develop high quality interdisciplinary research programs. UW currently has the highest level of federal funding of all public universities. The MSE department has 14 faculty, 91 undergraduates, 72 graduate students, and 20 postdoctoral researchers. The Department's research portfolio covers all classes of materials and state-of-the-art facilities are available in the Department and in interdisciplinary research centers on the campus including the NSF-STC for Materials & Devices for Information Technology and the NSF-MRSEC for Genetically Engineered Materials. More information about the department is available at http://depts.washington.edu/mse/.

Applicants should include the following documents and information with their letter of application: a detailed resume, a list of publications, clear and concise statements of teaching and research interests and objectives (3-page maximum), and the contact information of three referees.

Application deadline is December 15, 2007. Evaluation of applicants will start during late 2007 and continue until the positions are filled. **Application materials should be submitted by email attachment to Mr. Jay Montague at montague@u.washington.edu.** Or they may be mailed to: Faculty Search Committee, Attn: Jay Montague, Materials Science & Engineering, University of Washington, Box 352120, Seattle, WA 98195.

The University of Washington is an affirmative action, equal opportunity employer, is building a culturally diverse faculty and staff, and strongly encourages applications from women, minorities, individuals with disabilities, and covered veterans. UW is the recipient of a National Science Foundation ADVANCE Institutional Transformation Award to increase the participation of women in academic science and engineering careers. UW is the recipient of the 2006 Alfred P. Sloan award for Faculty Career Flexibility and is committed to supporting the work-life balance of its faculty.

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Positions Available

PROGRAM DIRECTOR
Division of Materials Research
National Science Foundation

The National Science Foundation is seeking qualified candidates for a Program Director position in the Division of Materials Research (DMR), Directorate for Mathematical and Physical Sciences (MPS), Arlington, VA.

The Division of Materials Research supports a wide range of programs that address fundamental phenomena in materials, materials synthesis and processing, structure and composition, properties and performance, and materials education. More information about the Division and its programs can be found on the DMR website at http://www.nsf.gov/materials.

The Solid State and Materials Chemistry Program supports basic research that includes understanding the atomic and molecular basis for synthesis, structure-composition-property relationships, and the processing of materials.

The formal vacancy announcement giving complete details can be found on the NSF Website at http://www.nsf.gov/. Go to Career Opportunities, then Scientific and Professional, and then scan down until you see the listing showing "Chemist (Program Director), Solid State & Materials Chemistry Program". Please note that the closing date has been extended until **November 15, 2007**.

How to Apply:
Applications may be transmitted electronically to rotator@nsf.gov. Individuals may also submit a resume or any application of your choice to the National Science Foundation, Division of Human Resource Management, 4201 Wilson Blvd., Arlington, VA 22230, Attn: E20070109-Rotator. In addition, you are encouraged to submit a narrative statement that addresses your background and/or experience related to the Program you are applying for. You are asked to complete and submit the Applicant Survey form which is found on the formal ad that is noted above. Submission of this form is voluntary and will not affect your application for employment (the information is used for statistical purposes).

Telephone inquiries may be referred to the Executive and Visiting Personnel Branch at 703-292-8755. For technical information, contact Dr. Ulrich Strom/DMR at 703-292-4938 or via email at ustrom@nsf.gov. Hearing impaired individuals may call TDD 703-292-8044. For all other inquiries, contact Hugh Sullivan by phone at 703-292-4376, by fax at 703-292-9185, or by email at hsulliva@nsf.gov.

The United States Government does not discriminate in employment on the basis of race, color, religion, sex, national origin, political affiliation, sexual orientation, marital status, disability, age, membership in an employee organization, or other non-merit factor.

NASA POSTDOCTORAL FELLOWSHIPS

The NASA Postdoctoral Program (NPP), administered by Oak Ridge Associated Universities, offers unique research opportunities to highly talented national and international individuals to engage in ongoing NASA research in space science, earth science, aeronautics, space operations, exploration systems, and astrobiology.

- Approximately 50 Fellowships awarded annually
- One-year appointments, renewable up to three years
- Annual stipends start at $50,000
- Annual travel budget of $8,000
- Financial assistance for relocation
- Financial supplement for health insurance purchased through the program
- Apply at http://nasa.orau.org/postdoc

Application Deadlines: March 1, July 1, and November 1

To obtain more information and to apply for this exciting opportunity, please visit the NPP Web site at http://nasa.orau.org/postdoc.

The NASA Postdoctoral Program is administered by ORAU

RESEARCH PHYSICIST
Naval Research Laboratory

The NRL Chemistry Division has an immediate opening for a Research Physicist with expertise in conducting quantitative surface analysis on complex systems. The applicant should be a recognized expert in the physics and chemistry of surfaces, interfaces, and nanostructures, including chemically and biologically functionalized surfaces, passivated semiconductor device surfaces, and manufactured component surfaces, as evidenced by publications in peer-reviewed journals and invited presentations at international conferences.

The position requires expertise in quantitative surface analysis methods, in particular using x-ray photoelectron spectroscopy (XPS), as applied to complex materials on metal, semiconductor, and insulating substrates. Experience is required using state-of-the-art software for XPS data analysis, and in operating advanced commercial and custom-built ultra-high vacuum surface analytical systems, including a VG ESCALAB 220i-XL, an Omicron scanning tunneling microscope, and synchrotron-based surface analysis systems. Experience is desired in handling, characterization, and analysis of nanostructures as well as inorganic, organic, and biological films.

This is an NP-1310-03 position with a salary range of $55,192 to $103,409 per annum based on qualifications, experience, and market consideration. Position requires a degree in Physics or related degree that included 24 semester hours in physics OR an equivalent combination of education and experience. A PhD or equivalent degree in Physics is highly desirable.

Announcement opens 1 October 2007 and closes **30 October 2007**. Applicants are encouraged to visit the websites. For those applicants with status (i.e., current government employees on a competitive career or career-conditional appointment, reinstatement eligibles, Veterans Employment Opportunities Act eligibles, etc.), apply to Vacancy Announcement Number NE7-1310-03-K9714375-I. For applicants without status, apply to Vacancy Announcement Number NE7-1310-03NRL0600-DE.

Follow instructions regarding 'How to Apply' for each at https://chart.donhr.navy.mil and click on search for jobs, type in Announcement number and press enter to obtain qualification information and instructions on how to apply.

The Naval Research Laboratory is an Equal Opportunity Employer.

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Positions Available

FACULTY POSITIONS
(Multiple with Rank Open)
Department of Materials Science and Engineering
University of Illinois at Urbana-Champaign

The Department of Materials Science and Engineering at the University of Illinois at Urbana-Champaign is seeking exceptional candidates for tenure-track or tenured faculty positions with expertise in fundamental science or engineering of advanced materials. Special consideration will be given to applicants with demonstrated accomplishments in one or more of the areas of bio-inspired materials, complex oxides/functional ceramics, advanced materials for energy, and metallic materials. To be considered for tenured positions, applicants must have achieved national and international recognition for their scholarship. Faculty members in the Department are expected to teach undergraduate and graduate courses, and initiate and sustain a vigorous graduate research program. Applicants must provide a curriculum vita that includes their teaching experience and interests, a list of publications, and a synopsis of a proposed program of research. Candidates for tenure-track positions must have three (3) letters of reference sent directly to the department. Candidates for tenured positions must include the names and contact information of at least three (3) references.

The Department has 27 faculty and more than 225 undergraduate and 185 graduate students, with nationally ranked graduate and undergraduate programs. The Department offers a rich research environment that spans experimental, computational, and theoretical studies in biomaterials; ceramics; complex fluids; metals; polymers; and electronic and photonic materials. Extensive state-of-the-art experimental and computational facilities are housed on campus in the Frederick Seitz Materials Research Laboratory, the Beckman Institute, and NCSA.

Applicants must hold an earned doctorate in an appropriate field. Salary and rank will be commensurate with qualifications. The proposed starting date for these positions is as soon as possible after the closing date. To ensure full consideration, applications must be received prior to **5 December 2007**. Interviews may take place during the application period, but a decision will not be made until after the closing date.

Applications will be accepted online at http://www.mse.uiuc.edu/FacultyOpenings.html.

If you do not have online access, please contact the department office for further options:

Department of Materials Science and Engineering
1304 W. Green Street
Urbana, IL 61801
Telephone: 217-333-1440
Fax: 217-333-2736
Email: mse@uiuc.edu

The University of Illinois is an Affirmative Action, Equal Opportunity Employer.

FACULTY POSITION
Department of Polymer and Fiber Engineering
Samuel Ginn College of Engineering
Auburn University

The Department of Polymer and Fiber Engineering, Samuel Ginn College of Engineering, at Auburn University is seeking applicants for a 9-month tenure-track faculty position at the Assistant Professor level. The position is expected to be filled by August of 2008. Candidates with a doctoral degree in polymers, materials, or a closely related field, who exhibit a rigorous and substantial academic background in polymers, are invited to apply. Please see position announcement for details at http://www.eng.auburn.edu/pfen.

Send application to Dr. Gisela Buschle-Diller, Department of Polymer and Fiber Engineering, Auburn University, Auburn, AL 36849 (phone 334-844-4123; fax 334-844-4068). The candidate selected for the position must be able to meet eligibility requirements to work in the United States at the time the appointment is scheduled to begin and continue working legally for the proposed term of employment and be able to communicate effectively in English. Application deadline is **January 15, 2008**.

Auburn University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL RESEARCH FELLOW
Microstructure of Irradiated Alloys
University of Michigan

A postdoctoral research fellow position is available beginning in October 2007 in the area of irradiated material microstructures and microchemistry with Professor Gary S. Was in the Nuclear Engineering and Radiological Sciences Department at the University of Michigan. The successful candidate will work on projects involving microstructural and microchemical characterization of ion-irradiated alloys (ferritic-martensitic steels, ODS alloys, advanced austenitic alloys) and also on accelerator-based creep of both metallic and non-metallic materials. Candidates should have a background in electron microscopy and mechanical properties of materials and should be familiar with radiation damage processes in metals.

Please send CV and the names of three references to:

Prof. Gary S. Was
Department of Nuclear Engineering and Radiological Sciences
University of Michigan; 1921 Cooley Building
Ann Arbor, MI 48109-2104
Phone: 734-763-4675; Fax: 734-763-4540
E-mail: gsw@umich.edu

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