

Positions Available



FACULTY POSITIONS
NanoScience Technology Center
University of Central Florida

The University of Central Florida (www.nanoscience.ucf.edu) is seeking outstanding candidates for full or associate professor positions in the NanoScience Technology Center (NSTC) to lead interdisciplinary nanoscience research in the broad areas of photonics, imaging, quantum information, materials, biomolecular science, and energy. Exceptional junior candidates in theoretical nanoscale science will also be considered for tenure-track positions. The NSTC is a recently established Center with 13 faculty and 47 graduate students working in 20,000-sq. ft. of state-of-the-art laboratory space.

Candidates must have a PhD degree in Physics, Chemistry, Life Sciences, or any other appropriate discipline from an accredited institution with proven track record of research accomplishments and be eligible for appointment with tenure at the associate or full professor rank. Candidates with outstanding records in energy-related fields may be considered for Endowed Chairs offered through the Florida Energy Systems Consortium at UCF. Candidates considered for junior faculty positions must at the minimum have a PhD degree in the aforementioned fields and relevant postdoctoral experience.

Review of candidates will begin on October 15, 2008 and will continue until all positions are filled. Please send curriculum vitae, summary of research and teaching plans, and list of three or more references to: Ms. Rajeswari Natarajan, Assistant Director, NSTC, 12424 Research Parkway, Suite 400, Orlando, FL 32826; mataraj@mail.ucf.edu. Electronic applications are encouraged.

UCF is an Affirmative Action Employer. Women and minorities are encouraged to apply.



TENURED OR TENURE-TRACK
FACULTY POSITION
Materials Science and Engineering
University of Minnesota

The Department of Chemical Engineering and Materials Science at the University of Minnesota seeks to fill a faculty position in Materials Science and Engineering. The position is at the Assistant (tenure-track), Associate, or Full Professor level. The department will consider outstanding candidates in any area of experimental Materials Science. Assistant Professor candidates should have a distinguished academic record (including a PhD degree), outstanding potential to establish an independent research program, and a commitment to teaching in a highly interdisciplinary department. Associate and Full Professor candidates should have several years of teaching and/or research experience.

Applications should be submitted on-line, and consist of a CV (including a list of publications), a research plan, a teaching plan, and a list of no more than three references with contact information (including email addresses). Submit applications at <https://employment.umn.edu>. Search for requisition number 158223 for Assistant Professor applications and 158588 for Associate/Full Professor applications. Information on the department is available at www.cems.umn.edu. Review of the applications will begin in **December 2008** and continue until the position is filled. It is hoped that the successful candidate will be in place by Fall 2009.

The University of Minnesota is an equal opportunity educator and employer.

NATIONAL RESEARCH COUNCIL

OF THE NATIONAL ACADEMIES

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Postdoctoral Research Awards

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**Opportunities for postdoctoral and senior research
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- Many opportunities available to non-US as well as US citizens

Detailed program information, including instructions on how to apply, is available on the NRC Web site at:

www.national-academies.org/rap

Applicants must initiate dialogue with prospective Advisors at the Lab as early as possible, before their anticipated application deadline.

Questions should be directed to the:

National Research Council

TEL: (202) 334-2760

E-MAIL: rap@nas.edu

Qualified applicants will be reviewed without regard to race, religion, color, age, sex or national origin.

THE NATIONAL ACADEMIES

Advisers to the Nation on Science, Engineering, and Medicine

FACULTY POSITION
Experimental Condensed Matter Physics
The University of Virginia

The Department of Physics of the University of Virginia invites applications for a faculty position in experimental condensed matter physics, at the tenure-track assistant professor level starting in the Fall semester of 2009. Candidates must have a PhD degree or equivalent in Physics or related field, postdoctoral experience, an outstanding research record, and an aptitude and commitment to teach at both undergraduate and graduate levels. Candidates with outstanding records in all forefront areas of experimental condensed matter physics are encouraged to apply. Examples of these areas include strongly correlated systems, nanoscopic physics, molecular electronics, and soft condensed matter physics. The successful candidate is expected to establish a world-class research program that adds significantly to the department's strengths in condensed matter physics while at the same time interfacing with existing programs.

Applications received on or before **December 30, 2008** will be given full consideration; however, the position remains open to applications until filled. Interested candidates are to submit a curriculum vitae along with their publication record, a one page (minimum) or two page (maximum) summary of research and teaching interests at <https://jobs.virginia.edu/applicants/Central?quickFind=55546>.

Four letters of references are to be sent directly to phys-cmp-exp-pos@virginia.edu or to Experimental CMP Search, Department of Physics, University of Virginia, P.O.B. 400714, Charlottesville, VA 22904-4714. For information on our department, please visit our website at <http://www.physics.virginia.edu>.

The University of Virginia is an equal opportunity, affirmative action employer. Women and underrepresented minorities are strongly encouraged to apply.

Positions Available



TENURE-TRACK POSITIONS

Nanoscale Science, Engineering, and Education
WVNano Initiative
West Virginia University

West Virginia University invites applications for four tenure-track faculty positions, each serving an integral role enabling discovery in **advanced biomolecular sensing, control, and delivery devices; nanofluidics; drug discovery and delivery; and science education research** through an integrative approach to combining nanobioscience, nanoscale structures, device development, and integrative system development. A PhD degree in the physical, biological, engineering, or biomedical sciences 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 degree 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 in their area of specialization, 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: 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. 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.

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.



POSTDOCTORAL
RESEARCH ASSOCIATE
Materials Science and
Engineering Department
Idaho National Laboratory

The Materials Science and Engineering Department at the Idaho National Laboratory (INL) seeks to fill a postdoctoral research associate opening in the area of *in situ* materials characterization. Of particular interest is the development of advanced measurement techniques (laser ultrasound, laser spectroscopy, laser-based thermal wave imaging, electromagnetic) for dimensional, mechanical, and thermal properties of materials in high temperature and radiation environments.

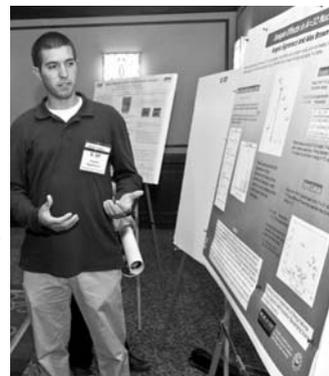
The *in situ* materials characterization needs at the Idaho National Laboratory (INL) fit into three complimentary categories. The first involves retrofitting existing plants with on-line nondestructive evaluation capability. This will be essential for lifetime extension of existing light water reactors. The second involves the development of more sophisticated instrumentation in our Advanced Test Reactor (ATR). The ATR is a national user facility and the development of in-pile characterization is essential to further development of advanced nuclear reactors. The third is the development of state-of-the-art characterization tools amenable for use inside a radiation hot cell. Our ongoing effort to further develop quantitative post irradiation examination capability is critical for providing experimental validation of new multiscale models of microstructure evolution in harsh environments currently under development at INL.

Please send curriculum vitae, summary of research plans, and list of three or more references to: Phyllis King; Idaho National Laboratory; P.O. Box 1625; Idaho Falls, ID 83415-2209; phyllis.king@inl.gov

INL is an Equal Opportunity Employer M/F/D/V.

Department of Energy
National Nuclear Security Administration
Stewardship Science Graduate Fellowship

Providing Opportunities for Stewardship Science Research



Benefits include:

- Payment of tuition and fees
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- Yearly academic allowance
- Renewable up to four years

APPLICATION DEADLINE - JANUARY 21, 2009!

For more information visit: www.krellinst.org/ssgf



This program is open to U.S. citizens and permanent resident aliens studying at a U.S. university who are exceptional senior undergraduates or are in their first or second year of graduate study. This is an equal opportunity program and is open to all qualified persons without regard to race, sex, creed, age, physical disability or national origin.



Contact: The Krell Institute
1609 Golden Aspen Drive,
Suite 101, Ames, IA 50010
515.956.3696
www.krellinst.org/ssgf



Positions Available



The Cluster of Excellence Smart Interfaces – Understanding and Designing Fluid Boundaries at the Technische Universität Darmstadt invites applications for a full-time, tenured faculty position. This Cluster of Excellence has been recently founded as part of the Excellence Initiative of the federal government of Germany. It combines research on fluid boundaries of the Departments of Mechanical Engineering, Chemistry, Physics, Materials Science and Mathematics as well as several external research institutions.

W3 (tenured) – Professorship for “Physics of Surfaces”

(reference number 364)

affiliated with the Department of Materials Science and Geosciences

The professor Physics of Surfaces should have a research profile in the field of solid-fluid interfaces and should exhibit competence in the preparation and characterization of micro- and nanostructured surfaces. Within the Cluster the professorship Physics of Surfaces should provide possibilities for the physico-chemical and structural realization of defined surface structuring by patterned chemical layers, patterned morphology and patterned interface interactions, and all possible combinations thereof.

The successful candidate

- has developed an internationally visible research profile,
- has shown his/her ability to actively drive collaborations and pursue them across boundaries between traditional disciplines and between academia and industry,
- is committed to establishing a vigorous research program in close collaboration with the Principle Investigators of the Center of Smart Interfaces and with other departments at the TU Darmstadt, and
- is experienced and successful in supervising graduate students and postdocs.

The successful candidate will be expected to offer lectures on key topics of the Cluster at the Department of Materials Science and Mechanical Engineering. For information regarding this position, you are invited to contact the Director of the Center of Smart Interfaces, Prof. Dr.-Ing. Cameron Tropea, +49-6151-162854, ctropea@sla.tu-darmstadt.de or the Dean of the Department of Materials and Geosciences, Prof. Dr. Wolfram Jaegermann, +49-6151-166304, jaegerw@surface.tu-darmstadt.de

The position is tenured with a remuneration package commensurate with experience and qualifications, following the German “W-Besoldung” category. The regulations for employment are specified under §§ 70 and 71 HHG (Hessisches Hochschulgesetz). Candidates who hold a public servant status (Beamtenverhältnis) can be reappointed under the same status.

The Technische Universität Darmstadt is an equal opportunity employer. The TU Darmstadt aims at enhancing the percentage of women where they are underrepresented. Therefore, women are especially encouraged to apply. Eligible disabled persons will be given priority. Interested candidates should submit a curriculum vitae, a research plan, a list of previously taught courses, a list of past and present research grants/projects and contact information of two references to: Director of the Center of Smart Interfaces, Prof. Dr.-Ing. Cameron Tropea, Petersenstr. 30, 64287 Darmstadt, Germany, ctropea@sla.tu-darmstadt.de. The deadline for applications is **December 15, 2008**. Electronic submissions are welcome. Further information about the Center of Smart Interfaces can be found at www.csi.tu-darmstadt.de

ENDOWED CHAIR Materials Engineering Tulane University



Tulane University invites applications for the Jung Chair in Materials Engineering, a chaired faculty position in the new Division of Physical and Materials Science. The successful candidate will lead and expand the division's research efforts in novel materials and related devices; develop an internationally recognized, externally funded research program; and collaborate with current research groups in the Department of Physics and other departments at Tulane.

Applicants must possess a doctorate in engineering, demonstrated excellence in research and teaching at the senior faculty level, and an outstanding record of research funding and scholarly publications. Application review will begin on **November 15, 2008**. Applicants should submit a cover letter, CV, research plan, and contact information for five references to: Jung Chair Search, Department of Physics, Tulane University, New Orleans, LA 70118-5698. Further information can be found at <http://www.physics.tulane.edu>. Inquiries can be directed to Prof. Fred Wietfeldt at few@tulane.edu.

Tulane University is an equal employment opportunity/affirmative action/ADA employer committed to excellence through diversity. All eligible candidates are invited to apply.



ASSISTANT PROFESSOR

Department of Mechanical Engineering
University of Texas at Austin

The Department of Mechanical Engineering at The University of Texas at Austin invites applicants for a tenure-track Assistant Professor position in the area of nanomanufacturing. Candidates must possess a PhD degree in mechanical, chemical, or materials engineering, or a related field, and possess a desire to build a world-class research and education program in the area of nanomanufacturing. The candidate should possess strong experimental and analytical skills and the expertise to work in nanomanufacturing processes that are tied into applications in emerging areas such as alternative energy, biomaterials, nanoelectronics, magnetic storage, and optoelectronics, among others. For example, one area of interest is in nanomanufacturing systems technology including topics such as real-time control, sensing architecture, precision engineering, metrology, systems integration, fault detection, in-line diagnostics, and yield enhancement.

The successful candidate will be expected to teach undergraduate and graduate courses, supervise graduate students, develop a funded research program, collaborate with other faculty, and be involved in service to the university and the profession. Interested applicants should submit by email a current vita, statement of research and teaching interests, and a list of at least three references to Professor Paul Ho, Nanomanufacturing Search Committee Chair. The email should be sent to Alicia Snyder at Alicia.snyder@mail.utexas.edu. Applications should be received by **December 15, 2008** to ensure full consideration. Further information about the Department of Mechanical Engineering at U.T. Austin can be found at www.me.utexas.edu. The applicant selected will have to undergo a background check.

The University of Texas at Austin is an Equal Opportunity, Affirmative Action Employer. Women and minorities are especially encouraged to apply.

Positions Available

FACULTY POSITIONS
Bourns College of Engineering
University of California, Riverside

UNIVERSITY OF CALIFORNIA
UCRIVERSIDE

The Bourns College of Engineering at the University of California, Riverside invites applications for tenure-track or tenured faculty positions at the Assistant, Associate, or Professor Rank. The College is seeking highly qualified faculty candidates with an excellent track record in the area of materials for clean energy conversion and storage. Examples of the specific research areas include fuel cells, solar cells, batteries, super-capacitors, and renewable energy production and storage. The successful applicants will join one of the five academic departments: Bioengineering, Chemical and Environmental, Computer Science, Electrical, Mechanical, and be affiliated with the newly established Materials Science and Engineering program which integrates across all five departments. Individuals with vigorous research programs and demonstrated productivity are strongly encouraged to apply for the senior rank. More details are provided at www.engr.ucr.edu/facultysearch/.

We anticipate that the successful applicant will complement the highly motivated and entrepreneurial spirit of the College faculty, contributing significantly to the success of future teaching, research, and service accomplishments. Incumbents are expected to initiate and sustain strong sponsored research and graduate training programs.

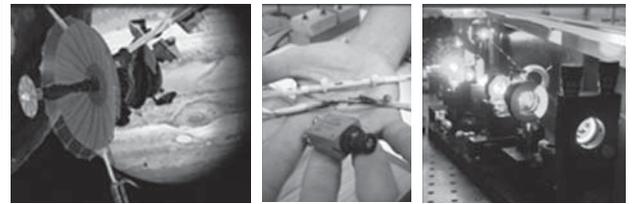
The Bourns College of Engineering is proud of its faculty's accomplishments and rapid growth. The College currently has 85 faculty members, over 1500 undergraduates, more than 380 graduate students, and more than \$32 million in annual research expenditures. The College is home to three interdisciplinary and multidisciplinary research centers: The Center for Environmental Research and Technology (CE-CERT), the Center for Research in Intelligent Systems (CRIS), and the Center for Nanoscale Science and Engineering (CNSE).

Search committees will begin reviewing applications as early as **December 15, 2008**. To apply please register through the weblink at www.engr.ucr.edu/facultysearch/ and submit the requested PDF files. For inquiries and questions, contact us at facultysearch@engr.ucr.edu.

The University of California, Riverside is an Equal Opportunity/Affirmative Action Employer.

THE
 UNIVERSITY
 OF UTAH

TENURE-TRACK POSITIONS
Department of Electrical and Computer Engineering



microfab

inip

I Z M

Fraunhofer
 Institut
 Zuverlässigkeit und
 Mikrointegration

USTAR

The Department of Electrical and Computer Engineering, University of Utah, Salt Lake City, seeks applications to fill at least two tenure-track positions at the assistant, associate, or full professor level for an interdisciplinary research cluster in **Micro and Nanosystem Integration and Packaging**. We are particularly interested in candidates with backgrounds in electronic micro/nano-system integration and packaging, biocompatible materials and packaging, solid state devices, reliability, testing, and micro/nano system modeling and simulation. Information on department research activities and curricula may be found on the web at www.ece.utah.edu. The web site also has information on five more positions available in the department, including a Chair search. Information on the College of Engineering can be found at www.coe.utah.edu. Successful candidates will conduct research with tenure-track appointments in the Department of Electrical and Computer Engineering, but may also be appointed in other departments such as Materials Science, Bioengineering, or Mechanical Engineering. Suitable candidates may be considered for joint appointments with the College of Science or the Medical School at the University of Utah.

These positions are part of the **Utah Science, Technology and Research Initiative (USTAR)**, which was funded by the Utah State Legislature to attract focused teams of outstanding researchers who have the potential to help build major research programs and create new technology that can ultimately lead to commercial products and/or new industries for Utah. The USTAR initiative is also supporting a new interdisciplinary building which will house a new nanofabrication laboratory and characterization facilities that will cater to solid state devices, MEMS, sensor and packaging research and development, as well as the handling of biomedical samples. The building will facilitate communication for researchers such as the ones hired under this solicitation, from engineering, sciences, and the medical school, as well as offering lab access for selected industrial stakeholders. Information on the USTAR initiative can be found under www.ustar.utah.gov. Candidates for this initiative should have a demonstrated track record of successful, funded projects and an interest or track record in technology commercialization, entrepreneurial, or industrial experience.

The positions are also associated with and partially supported by the **Fraunhofer Institute for Reliability and Microintegration IZM**, and leverage a strong collaborative and international research program with a Fraunhofer IZM branch laboratory in Utah. Fraunhofer support includes in-house access to Fraunhofer infrastructure, know-how, and resources. Selected positions may be associated with joint Fraunhofer appointments, possibly at a center director's or co-director's level.

Résumés with names, contact information for at least three references, and statements for research and teaching goals should be sent to:

Ms. Debbie Sparks, USTAR Faculty Search Committee
University of Utah, Electrical and Computer Engineering Department
50 South Central Campus Drive, Room 3280
Salt Lake City, UT 84112-9206

Email applications are accepted at dsparks@ece.utah.edu. Applications will be reviewed starting September 1, 2008, and will be accepted until the positions are filled.

Faculty responsibilities include developing and maintaining an internationally recognized research program, effective classroom teaching at the undergraduate and graduate levels, and professional service. Applicants must hold a PhD degree by the time of appointment. The University of Utah values candidates who have experience working in settings with students from diverse backgrounds and possess a strong commitment to improving access to higher education for historically underrepresented students.

The University is an AA/EO employer, encourages applications from women and minorities, and provides reasonable accommodations for known disabilities of applicants and employees.

Positions Available

FACULTY POSITION
NanoEngineering
Brown University

BROWN

The Division of Engineering at Brown University invites applications for a faculty position 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, 2009. The position is open to the tenure-track Assistant Professor rank or the tenured senior rank (Associate Professor or Full Professor). To guarantee full consideration, all application materials should be received by **December 1, 2008**.

We invite applications from outstanding scientists whose 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 post-doctoral training in electrical engineering, optics, biomedical engineering, materials sciences, chemistry, fluids sciences, 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 send a hard copy of the following: a complete curriculum vitae, publication list, statement of research plans, and lab requirements to the search committee's administrative assistant, Mr. Jeff Brown, Division of Engineering, Brown University, 182 Hope Street, Providence, RI 02912, USA. Additionally, Assistant Professor applicants should have three letters of reference sent to the Search Committee (c/o Jeff Brown). 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.

Faculty Position in Materials Science & Engineering
at Cornell University

Cornell University, located in Ithaca, New York, is an inclusive, dynamic, and innovative Ivy League university and New York's land-grant institution. Its staff, faculty, and students impart an uncommon sense of larger purpose and contribute creative ideas and best practices to further the university's mission of teaching, research, and outreach.

The Department of Materials Science and Engineering at Cornell University anticipates filling several faculty positions over the next few years. For the 2009-2010 academic year, we are searching for an exceptional candidate who will dramatically enhance our program in one or more of our strategic research areas: Energy and Environmental Technology, Biotechnology and Life Sciences, Nanotechnology, and Information and Telecommunications Technology (for more information see <http://www.mse.cornell.edu>). Applicants at all levels will be considered.

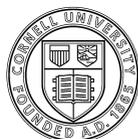
Candidates are expected to have or develop an internationally recognized program of research and teaching in materials science and engineering. Considerable institutional resources are available for the support of the successful applicant's research program and a competitive start-up package can be expected. The successful candidate can expect to benefit from associations with Cornell's many interdisciplinary research centers, facilities, and initiatives, which include a number of national resources. The successful candidate will be expected to excel in the teaching of materials science and engineering and to mentor students at both the undergraduate and graduate levels.

The Department of Materials Science and Engineering and the College of Engineering at Cornell embrace diversity and seek candidates who will create a climate that attracts students of all races, nationalities and genders. Women and under-represented minorities are strongly encouraged to apply.

Applications including a resume, a statement on teaching and research interests, copies of publications or preprints, and names of several references should be submitted online at: <http://fast.mse.cornell.edu>

Applications will be reviewed starting October 15, 2008 and will be accepted until this position is filled.

<http://www.mse.cornell.edu/mse/news/jobs/index.cfm>


Cornell University

*Cornell University is an Affirmative Action/
Equal Opportunity Employer and Educator.*

<http://chronicle.com/jobs/profiles/2377.htm>

STEVENS
Institute of Technology
TENURE-TRACK FACULTY POSITION
Chemical Engineering and Materials Science
Stevens Institute of Technology

The Department of Chemical Engineering and Materials Science (CEMS) at Stevens Institute of Technology announces a tenure-track faculty opening in Materials Science and Engineering with an earliest possible starting date of January 1, 2009. CEMS is a research-active department at Stevens with substantial strength in chemical and biological microsystems, polymers, biomaterials, nanoenergetics, and photonic sensing and imaging. Annual research expenditure in the department is about \$3M.

Applicants should have a PhD degree in Materials Science and Engineering or a related discipline. While all relevant areas will be considered, preference will be given to candidates with research interests and expertise in biomaterials or pharmaceutical materials science. Successful applicants will be expected to develop strong extramurally funded research activities and show a clear commitment to both graduate and undergraduate training in a highly integrated and interdisciplinary environment. The ability to cross-function in chemical engineering education will be a significant plus. Priority will be given to applicants for the rank of Assistant Professor though higher-level appointments will be considered for candidates with an appropriate level of past experience, demonstrated accomplishments, and vision for future achievement.

Applications will be accepted until the position is filled. Applicants should submit a curriculum vita, a detailed research plan including both short-term and long-term professional goals, a description of teaching interests, and contact information for at least three references to:

Chair of Faculty Search Committee; c/o Ms. Nancy Webb

Email: nwebb@stevens.edu

Department of Chemical Engineering and Materials Science

Stevens Institute of Technology; 1 Castle Point Terrace; Hoboken, New Jersey 07030

Stevens Institute of Technology is an equal opportunity/affirmative action employer and actively seeks the candidacy of women and minorities.

Positions Available



FACULTY POSITIONS

Materials Science and Engineering

The University of Texas at Dallas



The Materials Science and Engineering Department (<http://mse.utdallas.edu/>) in the Erik Jonsson School of Engineering and Computer Science (<http://ecs.utdallas.edu/>) at The University of Texas at Dallas (<http://www.utdallas.edu>) is seeking motivated and dynamic candidates with expertise principally in the following multidisciplinary areas:

- ▶ **Energy and the Environment**, including solar energy (photovoltaics), hydrogen generation, and storage.
- ▶ **Bioelectronics**, with a focus on the interface between the biological and electronic worlds.
- ▶ **Multifunctional Sensors**, with a focus on novel materials or structures for chemical, physical, and bio sensors.
- ▶ **Nanoelectronics**, including organic or carbon-based, flexible electronics, graphene, and hybrid materials.

Tenure-track appointments at the Assistant Professor level are favored, though more senior candidates will be considered. The candidate must have a PhD degree in Materials Science, Electrical Engineering, Chemistry, Physics, or a related field with a strong record of scholarly achievements. The candidate must also be able to demonstrate his/her potential for attracting external research funding. Junior level candidates belonging to underrepresented groups are particularly encouraged to apply.

The search committee will begin evaluating applications as soon as possible and will continue until the position is filled. Applicant submissions should include 1) a C.V., 2) a detailed research statement, 3) a one page teaching philosophy statement, 4) a list of three references with contact information, and 5) a cover letter describing the interest in this multidisciplinary program. Indication of ethnicity and sex are requested as part of the application, but not required.

The Materials Science and Engineering department is composed of highly interactive, diverse faculty members carrying out a broad range of research programs (external research funding >\$600K/faculty/year) in collaboration with Electrical Engineering, Physics, Chemistry, Biology, UT Southwestern Medical School, and many external collaborators. The department is located in the new Natural Science and Engineering Research Laboratory (<http://www.utdallas.edu/nserl/>), with new state-of-the-art facilities for synthesis, growth, nanofabrication, interface, and electrical characterization. The environment is ripe to welcome highly motivated faculty to help take the research and educational programs to the level of first tier universities. To help reach this goal, the department is further developing a comprehensive mentoring program initiated by the new VP of Diversity and Community Engagement (<http://www.utdallas.edu/diversity/>).

The University is located in one of the most attractive suburbs of the Dallas metropolitan area. There are over 900 high-tech companies within 5 miles of the campus, including Alcatel, EDS, Ericsson, Fujitsu, Hewlett-Packard, Texas Instruments, MCI, Nokia, Nortel Networks, Perot Systems, and Raytheon. Several leading telecommunications companies have major research and development facilities in our neighborhood. Opportunities for joint university-industry research projects are excellent. The Erik Jonsson School has experienced very rapid growth in recent years and recently ranked among the top 50 public engineering schools in the U.S.

UTD is an AA/EO employer.

Applications (preferably in PDF format) should be sent via e-mail to jobsrch@utdallas.edu.

Please include **Academic Search #7090** in the Subject line. Alternatively, a hard copy may be sent to:



Academic Search #7090
The University of Texas at Dallas
 Mail Station AD 42
 800 W. Campbell Road
 Richardson, TX 75080-3021

Positions Available



Tenure Track Assistant/Associate Professor Opening in Complex Oxides

The Department of Materials Science and Engineering at The Pennsylvania State University has an opening for a tenure-track faculty position in the area of complex oxides with a focus on the growth of thin films and bulk crystals and the characterization of electronic, photonic, ferroic, multiferroic and magnetic properties. Experience with semiconductor devices and processes is a plus. Appointment at the Assistant or Associate Professor level is preferred, although exceptional senior candidates will be considered. Successful candidates will complement Penn State's unique strengths in the area of ferroic oxides and interact with the Center for Nanoscale Science, an NSF-Materials Research Science and Engineering Center (MRSEC) at Penn State.

The department has highly ranked graduate and undergraduate programs with 30 faculty and more than 130 undergraduate and 170 graduate students. The Department offers a strong suite of research programs in the areas of ceramics, semiconductors, polymers, metals, photonic materials, nanomaterials, biomaterials, energy conversion materials, as well as materials design and discovery via theory and computational approaches. The Materials Research Institute and the Keck Labs house state-of-the-art facilities for characterization, materials synthesis, nanofabrication and computation. These facilities will be brought together in a new \$230 million Interdisciplinary Materials Research Building (construction is currently underway), for cutting-edge interdisciplinary research in materials and life sciences at Penn State.

The search committee will begin evaluating applications in early November and will continue until the position is filled. Applicants should submit 1) a curriculum vita, 2) a three-page research statement, 3) a one-page teaching philosophy statement, and 4) a list of three references with contact information. Applications should be submitted electronically to the Department of Materials Science and Engineering at search@matse.psu.edu

Penn State is committed to affirmative action, equal opportunity and the diversity of its workforce.

PENN STATE *Making Life Better*

**FACULTY POSITIONS
Materials Science and Engineering
Michigan State University**



Michigan State University is initiating an aggressive, broad-based effort to expand its research and educational expertise in complex materials for energy applications. As a cornerstone of this effort, we are seeking outstanding candidates to fill six (or more) tenure-stream faculty positions. Appointments can be made at any level within the Departments of Chemistry, Physics, and/or in one of the Departments within the College of Engineering. Research in all areas of experimental or theoretical materials research will be considered, with preference for candidates whose research agenda contributes to building cross-disciplinary and cross-college collaborations. Michigan State has in place an extensive infrastructure for the fabrication and characterization of materials and an established faculty base in energy sciences and engineering. Institutional support for this initiative is strong with concurrent formation of a center of research excellence in complex materials, and further investments in faculty positions, facilities, and space are possible upon successful completion of the search.

Inquiries should be directed to Prof. Phil Duxbury in the Physics/Astronomy Department (duxbury@pa.msu.edu), Prof. Don Morelli in the Engineering College (dmorelli@egr.msu.edu), or to Prof. Jim McCusker in the Chemistry Department (jkm@chemistry.msu.edu). Applications, including a resume, publication list, a description of research plans, and the names of at least four references should be sent to: Complex Materials Search Committee, Department of Physics and Astronomy, Biomedical and Physical Sciences Building (BPS), Michigan State University, East Lansing, MI 48824-2320. Consideration of applications will commence **November 15, 2008** and will continue until the positions are filled.

MSU is an affirmative action, equal opportunity employer. MSU is committed to achieving excellence through cultural diversity. The university actively encourages applications and/or nominations of women, persons of color, veterans, and persons with disabilities.

**FACULTY POSITION
Department of Physics
and Astronomy
James Madison University**



The James Madison University Department of Physics and Astronomy invites applications for a tenure-track faculty position at the rank of Assistant Professor beginning August 2009. The successful candidate will teach at all levels of the curriculum, including courses for non-science majors, and is expected to establish an externally funded program involving undergraduates in materials science research, broadly defined. A demonstrated record of teaching physical sciences or mentoring undergraduates is required. An earned PhD degree and postdoctoral experience is required.

The department has 19 full-time faculty members and ~100 students in our multi-track baccalaureate program. Departmental research interests include soft condensed matter, materials science, computational physics, nuclear/particle physics, and astronomy. In May 2005, the department moved into a new Physics and Chemistry building. In excess of \$2.7M has been spent equipping the department in this modern facility. In-house facilities include electron-beam lithography, atomic force and scanning electron microscopy, and a class 10,000 cleanroom with photolithography, thin film deposition, and etching capabilities. Additional information is available online about JMU at www.jmu.edu and about the department at <http://csma31.csm.jmu.edu/physics/>.

Applications are submitted via the web. For details on applying for this position, visit csm.jmu.edu/physics/html/application.html. Review of applications will begin on **November 21, 2008**. Applications will be accepted until the position is filled.

JMU is an equal opportunity/affirmative action/ equal access employer and especially encourages applications from minorities, women, and persons with disabilities.

Place Your Ad Today!

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

Positions Available

PENN STATE



Faculty Position in Electrical Energy Storage

The Department of Mechanical and Nuclear Engineering (MNE) at The Pennsylvania State University (<http://www.mne.psu.edu>) invites applications for a full-time, tenure-track faculty position at the assistant or associate professor level. The research focus of this position is Electrical Energy Storage Technologies to Enable Future Transportation and Renewable Energy. The successful candidate will complement and advance existing energy-related research and education activities within the Penn State Institutes of Energy and the Environment (PSIEE; <http://www.psiee.psu.edu>). This position is one of 25 new faculty positions in energy science, engineering, and policy that will be filled over the next three years as part of an initiative to expand an already strong and diverse program of environmental and energy research and education at Penn State.

We seek a candidate with strong research and teaching interests in electrochemical storage systems, particularly battery development and manufacturing. The candidate is expected to establish a vigorous sponsored research program and to collaborate effectively on research in related areas within and outside the Department of MNE at Penn State. Successful candidates are expected to develop a strong record in teaching undergraduate and graduate courses in mechanical engineering and related degree programs.

Penn State's mechanical engineering undergraduate and graduate programs are currently ranked 11th and 14th, respectively, by *U.S. News and World Report*. There are 49 tenure/tenure-track faculty in the Department, with 690 undergraduate students, 110 Master's students, and 130 Ph.D. students. Annual research funding is approximately \$25M, with approximately 67% government funding, 24% industry funding, and 9% foundation and university funding.

Requirements for the position include a doctoral degree in engineering or a related field. Salary will be commensurate with rank and experience. Review of applications will begin on February 1, 2009 and continue until the position is filled.

Applications should include: 1) formal letter of interest, 2) complete resume/curriculum vitae, 3) statement of research and teaching plans, and 4) names and contact information for at least three references. Mail applications to: Energy Storage Search Committee, Department of Mechanical and Nuclear Engineering, 137 Reber Building, The Pennsylvania State University, University Park, PA 16802. Electronic submissions to ees_search@mne.psu.edu are preferred. We encourage applications from individuals of diverse backgrounds to apply.

Penn State is committed to affirmative action, equal opportunity and the diversity of its workforce.

PENN STATE Making Life Better

FACULTY POSITIONS
Materials Science and Engineering
Michigan Technological University

MichiganTech

The Department of Materials Science and Engineering at Michigan Technological University invites applications for multiple tenure-track faculty positions at the rank of Assistant, Associate, or Full Professor. Successful applicants will have demonstrated an esteemed record of professional achievement commensurate with rank and the potential to continue and sustain a high-quality, peer-recognized research program. Candidates in all areas of materials science and engineering will be considered, but applicants whose research focuses on computational methods and modeling of materials are especially encouraged to apply, and may be concurrently considered as part of the University's new Strategic Faculty Hiring Initiative in "Computational Frontiers."

Michigan Tech enrolls over 7,000 students, and has the 29th largest engineering program in the country. The nationally ranked MSE Department is led by a growing faculty (presently eleven members) and has an approximate enrollment of 120 undergraduate and graduate students. The department features outstanding educational and research infrastructures, including state-of-the-art optoelectronic facilities, a broad range of materials processing capabilities, and a comprehensive inventory of materials characterization competencies, housed within approximately 125,000 square feet of modern research laboratories. The educational and research programs are supported by a dedicated and highly qualified technical staff comprising five specialists formally trained in core methods and technologies. Additionally, numerous opportunities exist to collaborate with colleagues conducting excellent materials-related research in peer departments across campus.

Michigan Tech is located in Houghton, Michigan, a community offering a high quality of life for individuals and families desiring excellent schools, outdoor activities and adventure, and a small-community lifestyle. Located on the scenic Keweenaw Peninsula in Michigan's Upper Peninsula, Houghton was included in "The 100 Best Small Towns in America," by Norman Crampton, and was featured recently as one of America's Top Ten "Adrenaline Outposts" by National Geographic Adventure Magazine. Additional information about the area can be found at <http://www.cityofhoughton.com> and <http://www.keweenaw.info>.

Motivated applicants should send, in PDF or MSWord format, a cover letter, curriculum vita, statement of teaching and research interests, and contact information for three professional references to mse-search@mtu.edu. Applications may also be submitted by mail to: Faculty Search, Materials Science and Engineering, Michigan Technological University, 1400 Townsend Drive, Houghton, MI 49931.

Evaluation of applications will begin on **December 1, 2008** and will continue until the positions are filled.



Michigan Technological University is an equal opportunity educational institution and equal opportunity employer and strongly encourages applications from the broadest and most diverse cross section of qualified individuals.

Positions Available

NC STATE UNIVERSITY

Head of the Department of Materials Science and Engineering and Kobe Steel Distinguished Professor

Nominations and applications are invited for the Head of the Department of Materials Science and Engineering at North Carolina State University in Raleigh, NC. This person will also hold one of four Kobe Steel endowed chairs within the department. We are seeking an individual with strong leadership skills and the vision to guide the department through the coming challenges of interdisciplinary materials research. The candidate is expected to have a proven record and international reputation in materials research, high visibility on national and international panels, and a strong record of commitment to human and intellectual diversity. Required credentials include a doctorate in materials science and engineering or a related field, and a demonstrated ability to work effectively with faculty, students, staff, administration, industry, departmental partners, and funding agencies.

The Department of Materials Science and Engineering:

- Is currently composed of 19 full-time faculty, four of which have been hired in the last four years, and have a combined average annual research expenditure in excess of \$5.2 million;
- Houses six centers and has traditional strengths in electronic/structural materials and technology transfer, with emerging expertise in biological and computational materials science as well as interdisciplinary nanotechnology;
- Is housed in a new building on Centennial Campus, a 1,334-acre technology campus where academic, industry and government researchers work together to meet cutting-edge challenges in research and technology;
- Faculty have developed numerous high-tech start-up companies, a process that is enhanced by an aggressive Technology Incubator on the Centennial Campus.

Candidates can obtain further information about the department at its website (<http://www.mse.ncsu.edu>). Specific information about the advertised position can be obtained via e-mail (MSEHeadSearch@ncsu.edu). Nominations can be made electronically via e-mail at MSEHeadSearch@ncsu.edu or sent to:

Chair of the MSE Head Search Committee
Campus Box 7906
North Carolina State University
Raleigh, NC 27695-7906

Applications will be accepted online at <http://jobs.ncsu.edu>, reference position #04-34-0809. Review of the applications will begin November 15, 2008; however, the position will remain open until a suitable candidate is found.

AA/EOE. Also, NCSU welcomes all persons without regard to sexual orientation. Individuals with disabilities desiring accommodation in the application process should contact Ms. Lee Ann Clark at (919) 515-2311.

NC STATE
achieve!
Innovation in Action



FACULTY POSITIONS

Department of Mechanical Engineering and Materials Science Pratt School of Engineering Duke University

The Department of Mechanical Engineering and Materials Science at Duke University invites applications for multiple faculty positions. We seek to fill at least two positions during the 2008-09 academic year, with the anticipation also that further positions will be available in the coming three-year period, as the Pratt School of Engineering continues its vigorous growth across all disciplines. Positions are available at all ranks, and tenured appointment at the Full or Associate Professor level is anticipated for exceptional applicants. Although applications are welcomed in all areas of mechanical engineering and materials science, the department seeks particularly to build upon existing strengths in the following three thrust areas: 1) thermal/fluid science and engineering, where the goal is to leverage current strength in thermodynamics, constructal theory, acoustics, aerodynamics, and therapeutic ultrasound to achieve an enhanced role in emerging energy technologies; 2) materials science, where we seek to augment existing efforts in biological materials, nanoscience, computational materials science, and computational mechanics by further increasing our presence in theoretical and experimental development of materials and material systems; and 3) dynamical systems, controls, and robotics, where we will build on strong existing efforts in nonlinear dynamics, aeroelasticity, acoustics, and distributed systems to make further innovations in the control and automation of complex systems.

It should be noted that the above three thrusts overlap significantly, both with each other and with the department's stated research areas of acoustics and vibrations; aerodynamics and fluid mechanics; biomechanics and biomaterials; dynamics and controls; energy technology and thermodynamics; manufacturing; and materials science and mechanics. Additionally, the school has an evolving initiative in optimization and uncertainty, so applicants featuring these concepts prominently in their work will receive special consideration. The ability to initiate and participate in collaborative and cross-disciplinary scholarship, both within MEMS and across departmental and school lines, is key to success at Duke. Successful faculty candidates are expected to establish a vibrant research program, obtain competitive external research funding, and participate actively in teaching at both the undergraduate and graduate levels; candidates for Associate and Full level appointments must already demonstrate considerable evidence of these activities.

Applicants should submit a cover letter describing their research interests and qualifications, a curriculum vitae, and the names and addresses of three references. Please submit your application to mems-search@pratt.duke.edu as a PDF (preferred) or Word file attached to your email. All applications received by **January 15, 2009** will receive full consideration; however, our search process will remain open after that date until the positions are filled.

MEMS Search Committee Chair
Department of Mechanical Engineering and Materials Science
Pratt School of Engineering
142 Hudson Hall; Duke University; Durham, NC 27708
Phone: 919-660-5418; Fax: 919-660-8963
Email: mems-search@pratt.duke.edu

Duke University is an Affirmative Action/Equal Opportunity Employer.

Positions Available

FACULTY POSITIONS

**IN MATERIALS SCIENCE AND ENGINEERING,
THE UNIVERSITY OF MICHIGAN**

The Department of Materials Science and Engineering (MSE), College of Engineering, University of Michigan, invites outstanding applicants for tenure and tenure-track faculty position(s). While applicants from all areas of the field are welcome, emphasis will be placed on applicants with records of research accomplishment in the areas of soft materials, structural materials and materials for energy conversion and storage. Each applicant must hold a Ph.D. degree in MSE, or a related field, and should be qualified to teach undergraduate and graduate courses within the field. We are especially interested in candidates who can contribute, through their research, teaching and/or service, to the diversity and excellence of the academic community. The University of Michigan is responsive to the needs of dual career families.

Send curriculum vitae and a list of references to:

**Faculty Search Chair
Department of Materials Science and Engineering
The University of Michigan
2300 Hayward Street
Ann Arbor, MI 48109-2136
Or email: mse-faculty-search@umich.edu**



The University of Michigan is an affirmative action, equal opportunity employer.

**FACULTY POSITION
Computational
Materials Science
Tulane University**



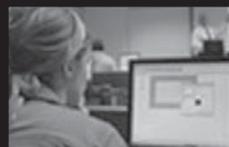
The Department of Physics and Engineering Physics invites applications for a tenure-track Assistant Professor position in Computational Materials Science, with preference for an applicant who uses density functional theory to understand and predict the properties of real materials. A PhD degree in Physics (or related area such as Physical Chemistry or Materials Science and Engineering) is required, as is postdoctoral or comparable experience.

The successful candidate would build an independent, externally funded research program and participate in undergraduate and graduate teaching in physics and materials science. Opportunities exist for collaboration with other Tulane faculty, including condensed matter theorists and experimentalists, and for participation in an anticipated expansion of the materials science effort at Tulane. There is a possibility of a joint appointment with the Center for Computational Sciences during the first four years of the appointment.

Candidates should submit a cover letter, a CV, and a research plan, and should arrange for three letters of reference to be sent to Prof. John P. Perdew, Search Committee, Department of Physics, Tulane University, New Orleans, LA 70118-5698. For full consideration, all materials should be received by **December 31, 2008**. The position starts July 1, 2009, and is subject to final approval of the administration. E-mail applications are not accepted. Further information can be found at <http://www.physics.tulane.edu/>.

Tulane is an AA/EEO Employer.

NDSU



DIRECTOR Graduate Program in Materials and Nanotechnology

The graduate program in Materials and Nanotechnology at **North Dakota State University** invites applications for the position of **Director**. This is a new interdisciplinary program involving faculty from the College of Science and Mathematics and the College of Engineering and Architecture, with the potential to expand involvement to the College of Agriculture, Food Systems, and Natural Resources and the College of Pharmacy, Nursing, and Allied Sciences. Current research programs include polymers, superhard coatings, new materials for electronics, nanomaterials, nanofabrication, bio-nano systems, computational materials science and engineering, and nano-medicine.

The Director will report to the Dean of the College of Graduate and Interdisciplinary Studies. The Director is expected to provide strong leadership in developing the educational and research activities of the Materials and Nanotechnology interdisciplinary program. The Director is also responsible for overseeing all of the management functions for this program. In this role, the Director is expected to work closely with academic departments and with the staff and research faculty at the NDSU Center for Nanoscale Science and Engineering (CNSE) and the forthcoming Materials Science Initiative at NDSU's Center for High Performance Computing (CHPC). CNSE (<http://www.ndsu.edu/cnse>) conducts large-scale, multi-disciplinary research for the government and private sectors.

This position offers an exceptional opportunity for a highly motivated individual to play a central role in the integration and development of the Materials and Nanotechnology program. The candidate must have a PhD degree in Materials Science, Engineering, Physics, Chemistry, or a related field with a strong record of scholarly achievement. The appointment will be at the rank of full or associate professor with tenure in an academic department most closely related to the applicant's interests. The candidate must have an established record of attracting substantial external research funding for individual and team research projects and the proven ability to establish and foster both inter- and intramural collaborations on multidisciplinary projects and programs. A complete list of minimum and preferred qualifications may be found at the link below.

Applicants must submit a C.V., a detailed research and goals statement, three references with contact information, and a cover letter detailing interest in and possible contributions to the program through NDSU's online application system at jobs.ndsu.edu/applicants/Central?quickFind=50580. For questions regarding this position, please contact Daniel Kroll, Search Chair and Head of Physics Department, at 701-231-8968 or Daniel.Kroll@ndsu.edu.

NDSU is an equal opportunity employer. Women and traditionally underrepresented minorities are encouraged to apply.

Positions Available



RESEARCH ASSOCIATE
Petersen Institute of NanoScience and Engineering
University of Pittsburgh

The Petersen Institute of NanoScience and Engineering (PINSE: www.nano.pitt.edu) at the University of Pittsburgh has an immediate opening for a full-time research associate (RA). The RA will be responsible for supporting the research activities relating to the characterization instrumentation (optical spectroscopy and microscopy, scanning probe microscopy, and XRD) within the Nanoscale Fabrication and Characterization Facility (NFCF). The RA will be required to maintain, modify, and develop the equipment for current and future research efforts and also to assist and train students, post-docs and other scientists on the equipment. The ability to contribute to the related activities of NFCF in nanofabrication and transmission electron microscopy is also desirable.

The successful candidate must have a PhD degree in materials science, physics, chemistry, or related field, extensive knowledge in materials characterization and instrumentation, and a strong aptitude for collaborative research in an academic environment. Excellent interpersonal communication and writing skills also are important. Please send a cover letter and a CV with contact information for three references by **November 30, 2008** to: Theresa Costanzo, 348 Benedum, University of Pittsburgh, Pittsburgh, PA 15261; costanzo@engr.pitt.edu.

The University of Pittsburgh is an Affirmative Action, Equal Opportunity Employer and strongly encourages applications from women and minorities.



Max-Planck-Institut für Eisenforschung

The Max-Planck-Institut für Eisenforschung GmbH (MPIE) in Düsseldorf, Germany, invites applications for a new research group on

Advanced Synthesis of Metallic Materials

at the group leader, assistant professor, or associate professor level (W2, tenure track possible upon qualification).

The Max-Planck-Institut für Eisenforschung conducts basic research on structural materials with a focus on steels, magnesium, titanium, composites, intermetallic phases and related alloys. An essential target of our projects is an improved understanding of the complex physical processes and chemical reactions of modern engineering materials. New high-performance materials with outstanding physical and mechanical properties are developed in the institute for high-tech structural and functional applications.

The Institute has a strong record in the fields of theory and simulation, characterization, surface science, and materials mechanics. We want to strengthen our profile by establishing a new group on the Advanced Synthesis of Metallic Materials.

The focus of the new group can be placed on basic research in the fields of combinatorial alloy design, advanced synthesis including vacuum and high pressure metallurgy, rapid solidification and related advanced casting methods, accumulative bonding, in-situ and / or bulk synthesis of ultra high strength and ultra-light weight engineering materials. Particular interest lies in the development of next-generation metallic alloys that offer superior mechanical and / or functional properties.

The candidate is expected to strongly interact with the existing research groups in theory (ab initio, atomistic, continuum modeling), characterization (surface science, electrochemistry, electron microscopy, nanomechanical testing) and thermomechanical processing.

The successful candidate is invited to shape the direction of the group and establish a strong and interdisciplinary initiative with international visibility. The infrastructure is well established, i.e. MPIE is equipped with the latest metallurgical aggregates for bulk and small scale synthesis (vacuum, high pressure, rapid solidification, and conventional metallurgy, single crystal furnaces) and willing to take on further investments if required. The group has currently 3 highly experienced service technicians.

Desired Qualifications: Excellent Ph.D. in materials science or related fields; strong publication record; strong background in synthesis, physical metallurgy and metal physics; excellent English and team-oriented research spirit. Applications are accepted until position is filled.

We are an equal-opportunity employer. We invite candidates to send their application (CV including documents of grades; 3 best publications; 2 Professors to give reference; 1-page concept on main research interest) as pdf via email to

Professor Dierk Raabe
Max-Planck-Institut für Eisenforschung GmbH
Max-Planck-Straße 1 • 40237 Düsseldorf • Germany
d.raabe@mpie.de, Tel.: +49 (0)211- 67 92 340, www.mpie.de



UNIVERSITY OF Nebraska Lincoln

FACULTY POSITIONS
Department of Mechanical Engineering
University of Nebraska-Lincoln

The Department of Mechanical Engineering at the University of Nebraska-Lincoln (<http://www.engr.unl.edu/me/index.html>) invites applications in the area of materials science and engineering for tenure-track or tenured faculty positions at any professorial level. Applicants should have strong scholarly achievements and a PhD degree or equivalent in materials science and engineering or closely related field. Successful candidates will demonstrate commitment to excellence in undergraduate and graduate education and will develop a leading-edge research program at UNL in emerging area(s) of materials science and engineering, such as those related to biomedical devices or alternative energy. This research should benefit from

the strong interdisciplinary materials-related research programs of over 70 faculty in 13 departments and from access to the outstanding research facilities in the Nebraska Center for Materials and Nanoscience (www.unl.edu/ncmn/) and the NSF-funded Materials Research Science and Engineering Center (www.unl.edu/mrsec/).

To be considered for this position go to <http://employment.unl.edu>, **requisition #080862** and complete the Faculty/Academic Administrative form attaching resume, cover letter, C.V., detailed research and teaching statement, and list of three references. Applicant reviews will begin **January 12, 2009** and continue until the position is filled.

The University of Nebraska has an active National Science Foundation ADVANCE gender equity program, and is committed to a pluralistic campus community through affirmative action, equal opportunity, work-life balance, and dual careers.

Positions Available



TENURE-TRACK FACULTY POSITION
Crystalline Solids
Department of Mechanical Engineering
Texas A&M University

The Department of Mechanical Engineering at Texas A&M University invites applications for a tenure-track position in Materials. Applicants are sought at the Assistant or Associate Professor level. Applicants must have earned a doctorate with a specialty in materials science and engineering or a closely related discipline with expertise in materials modeling, multifunctional materials, materials for energy applications and/or conversion, nanomaterials, and micro-structural characterization.

Successful applicants will be expected to contribute to the department's mission through: (1) development of a high-quality research program supported by external funding, (2) a strong commitment to teaching at the undergraduate and graduate levels, and (3) service to the profession within the university and through national/international organizations. Faculty will be encouraged to participate in interdisciplinary multi-investigator efforts and interact with existing programs and faculty. More information about our academic and research programs is available on the web (<http://www.mengr.tamu.edu>).

The Dwight Look College of Engineering is one of the largest engineering colleges in the nation, with over 10,000 students and twelve

departments. The Department of Mechanical Engineering's graduate program is ranked 12th and the undergraduate program is ranked 9th among public universities. Materials is one of four divisions within the department and comprises more than ten tenured or tenure-track faculty.

Applicants should submit a complete resume, a one-page statement of research and teaching interests, and a list of three references (including their postal addresses, telephone numbers, and e-mail addresses) electronically via the departmental web site at <http://www.mengr.tamu.edu/Employment/employment.html>.

If electronic submission is not possible, applicants may submit their application package via standard mail to:

Crystalline Solids Materials Faculty Search Committee
 c/o Ms. Eva Goodman; Department of Mechanical Engineering
 3123 – Texas A&M University
 College Station, TX 77843-3123

Applications will be accepted until the position is filled. Women and under-represented minorities are encouraged to apply.

Texas A&M University is an Equal Opportunity and Affirmative Action Employer



One of the oldest institutions of higher education in this country, the University of Delaware today combines tradition and innovation, offering students a rich heritage along with the latest in instructional and research technology. The University of Delaware is a Land-Grant, Sea-Grant, Urban-Grant and Space-Grant institution with its main campus in Newark, DE, located halfway between Washington, DC and New York City. Please visit our website at www.udel.edu.

Faculty Positions in Electrical and Computer Engineering

The Department of Electrical and Computer Engineering (ECE) at the University of Delaware invites nominations and applications for multiple tenure-track faculty positions in the general areas of nanotechnology, renewable energy, systems for sensing/imaging applications, advanced RF materials, system/software engineering, embedded systems, secure systems, and computer networking. One position will have responsibilities for developing educational programs specialized for teaching engineers and scientists at Aberdeen Proving Grounds which will include employees of the U.S. Army Communications-Electronics Research, Development, and Engineering Center (CERDEC).

Successful applicants will share our vision to become part of a broad interdisciplinary research program within the College of Engineering. Our research initiatives in ECE are supported by a fully-equipped, state-of-the art 7,000 sq ft clean room for nano-fabrication and fueled with over \$15M/year in research expenditures.

Applicants should hold a Ph.D. in electrical and/or computer engineering, or closely related physical sciences. Successful candidates are expected to have demonstrated excellence in innovative research and show the potential for high-quality teaching and mentoring. The appointment is anticipated to be at the tenure-track assistant or associate professor level; however, qualified candidates at all levels will be considered.

Applicants should send curriculum vitae, a statement of research and teaching interests, achievements, and a list of at least four references to ECE Faculty Search Committee, 140 Evans Hall, University of Delaware, Newark, DE 19716; or by email to f-search@udel.edu. The curriculum vitae and all application materials shall be shared with departmental faculty. Review of applications will begin immediately and will continue until the position is filled.

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



POSTDOCTORAL POSITIONS
Hard, Non-oxide Nanomaterials

Rutgers
The State University of New Jersey

Rutgers Materials Science and Engineering (<http://mse.rutgers.edu>; <http://iamd.rutgers.edu>) seeks: 1) a Transmission Electron Microscopist who will carry out cutting edge characterization research, with expertise in TEM, STEM, PEELS, EDS, and structure simulation, as well as: 2) an expert in ceramic powder processing, and microstructure-property relationships. The candidates must have completed a PhD degree in MSE or closely related field.

Send: CV, three journal papers, three letters of reference, and proof of visa status (US citizen or green card desired) to Professor S.C. Danforth, MSE Department, 607 Taylor Road, Piscataway, NJ 08854-8065.

Rutgers University is an equal opportunity employer.

Positions Available



FACULTY SEARCH
Department of Mechanical Engineering and Materials Science
Rice University

The Department of Mechanical Engineering and Materials Science (MEMS) at Rice University joins with other engineering departments at Rice University to seek outstanding candidates in the cross disciplinary field of Complex Systems. MEMS identifies this area as focused research on systems related to mechanical engineering and/or materials science where system integration, cross-disciplinary bridging, and multiscale assessment and modeling is of interest. One or more positions may be filled in this area based on the caliber of the applicants. Hires at the assistant professor level are to be considered.

MEMS at Rice University has foci on (1) Robotics, Dynamic Systems, and Control, (2) Thermal and Fluid Energy Systems, (3) Solid Mechanics and Materials Science. Materials Science in MEMS has a high level of nanotechnology specialization while MEMS also has focus in Computational Mechanics and Materials. It is expected that successful candidate(s) will couple strongly to one or more of these emphasis, however, it is expected that the successful applicants will add to a growing program in complex systems that is engineering wide.

Preference will be given to the overall originality and promise of the candidate's work rather than to the sub-area of research. Applicants should send a letter of application, a detailed curriculum vita that includes a list of publications, a brief statement of research and teaching interests, and a list of at least four references with the references' postal and email addresses and phone and fax information to:

MEMS Department Chair
 Attn: Faculty Search
 Department of Mechanical Engineering and Materials Science
 Rice University, MS 321
 6100 Main Street
 Houston, Texas 77005-1892

The position will be kept open until filled but priority will be given to applicants who apply prior to **January 15, 2009**. For information about the department, visit our website at <http://www.mems.rice.edu/>.

Rice University seeks to attract qualified individuals of diverse backgrounds to its faculty, staff, and student body. In job categories where women and minorities are underrepresented, the University takes Affirmative Action in recruitment, hiring, and advancement. The University further seeks to employ, advance in employment, and otherwise treat qualified individuals with disabilities and covered veterans without discrimination based upon their physical or mental handicap.



DIRECTOR
WVNano Initiative
West Virginia University

West Virginia University seeks applications and nominations for an exceptional leader with strong technical, strategic planning, and team-building skills to become the Director of WVNano, the West Virginia University initiative for nanoscale science and engineering, and education (NSEE). WVNano (<http://wvnano.wvu.edu>) is an exciting University-wide initiative to accelerate both NSEE and nanotechnology research to a high level of competitiveness. WVNano is an intensely interdisciplinary effort involving over 25 researchers from the colleges representing science, engineering, health science, and education. WVNano is funded by university, state, and federal sources. The strategic plan is dynamic and has resulted in six new faculty positions with four more positions currently available. A significant number of additional NSEE-related faculty searches are also underway by the University's Colleges.

The Director will promote the sense of community within WVNano and be responsible for the Initiative's vision, leadership, advocacy, and management. The Director will report directly to the Vice President for Research and Economic Development. Acceptable candidates must have a demonstrated commitment to and current knowledge of interdisciplinary research and education relevant to NSEE; demonstrated technical, administrative, and communication skills; an earned doctoral degree; and an established record of leading and fostering large interdisciplinary research efforts. Evidence of significant academic research and educational expertise and/or experience leading large research programs is required. The academic appointment will be commensurate with the candidate's background.

Applications should be submitted electronically to nanofaculty@mail.wvu.edu (list WVNano Director in the subject line). Applications should include (1) a statement describing the applicant's qualifications and vision for the future of WVNano; (2) a complete curriculum vitae, including a record of scholarly activity and leadership experience; and (3) the names and contact information for at least five references. For full consideration completed applications should be received by December 10, 2008, but the position will remain open until filled. Questions regarding the position should be addressed to David Lederman, Interim Director, WVNano, at David.Lederman@mail.wvu.edu or 304-216-8209.

West Virginia University is an affirmative action, equal opportunity employer, dedicated to building a culturally diverse and pluralistic faculty and staff committed to working in a multicultural environment. Applications from women, minorities, individuals with disabilities, and covered veterans are encouraged. Individuals that are part of dual career couples are also encouraged to apply.

Place Your Ad Today!

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

Positions Available



FACULTY POSITIONS

Materials Science & Engineering

University of Washington



The Department of Materials Science and Engineering at the University of Washington seeks a full-time tenure-track Faculty Member to begin Autumn Quarter 2009.

The candidate for this tenure-track position should have an excellent record of published research in the field of materials science and engineering with a research focus on molecular engineering (MoE). MoE is a broadly defined field associated with the design, fabrication, and delivery of functional molecules and molecular systems for a broad range of applications including medical, energy, electronics, and photonics. The candidates' work should be truly interdisciplinary in nature with potential to establish collaborations with departments in physical and biological sciences, engineering, and medicine. The selected faculty will have ample opportunities to collaborate with a broad spectrum of interdisciplinary Centers and Institutes including the NSF-STC on Materials and Devices for Information Technology, the NSF-MRSEC on Genetically Engineered Materials Science and Engineering Center, the NIH-funded Microscale Life Science Center, and the Institute of Advanced Materials and Technology. A doctoral degree is required. Candidates in the final stages of a doctoral degree program may be considered. The Department seeks candidates at the assistant professor rank; however, commensurate with the qualifications of the individual, an appointment may be made at the rank of associate professor. This hiring is contingent upon available funding.

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 this position will be expected to provide innovative and quality teaching that integrates research with instruction. He/she 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 15 faculty, >100 undergraduates, ~75 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/>.

Application Deadline: January 15, 2009

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. Evaluation of applicants will start on **December 15, 2008**.

How to Apply

- Application materials must be submitted via the College of Engineering's online Faculty Search Tool at <http://www.engr.washington.edu/facsearch/?dept=Mse>. Click on position #AA2229.
- Questions about the details of this search or position may be directed to the search committee by email to montague@u.washington.edu.

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.

Positions Available

TENURE-TRACK FACULTY POSITION

Polymers or Polymer Composites
Department of Mechanical Engineering
Texas A&M University

The Department of Mechanical Engineering at Texas A&M University invites applications for a tenure-track position in Materials. Applicants are sought at the Assistant or Associate Professor level. Applicants must have earned a doctorate by the date of appointment with a specialty in polymer engineering/science or a closely related discipline with demonstrated expertise in nanostructured polymeric materials, multifunctional polymer nanocomposites, polymeric materials for energy harvesting, and/or polymer-based sensors.

Successful applicants are expected to contribute to the department's mission through: (1) development of a high-quality, independent research program supported by external funding and evidenced by publications in leading scholarly journals, (2) a strong commitment to teaching excellence at the undergraduate and graduate levels, and (3) service to the profession both within the university and through national and international professional organizations. Faculty are expected to participate in interdisciplinary multi-investigator efforts, to supervise and mentor students, and to interact with existing programs and faculty. More information about our academic and research programs is available on the web (<http://www.mengr.tamu.edu>). It is also assumed that the candidate would join the interdisciplinary Materials Science and Engineering Program (<http://msen.tamu.edu>).

The Dwight Look College of Engineering is one of the largest engineering colleges in the nation, with over 10,000 students and twelve departments. The Department of Mechanical Engineering's graduate program is ranked 12th and the undergraduate program is ranked 9th among public universities. Materials is one of four divisions within the department and comprises more than ten tenured or tenure-track faculty.

Applicants should submit a complete resume, a one-page statement of research and teaching interests, and a list of three references (including their postal addresses, telephone numbers, and e-mail addresses) electronically via the departmental web site at: <http://www.mengr.tamu.edu/Employment/employment.html>.

If electronic submission is not possible, applicants may submit their application package via standard mail to:

Polymer Science and Engineering Faculty Search Committee
c/o Dr. Terry Creasy
Department of Mechanical Engineering
3123 – Texas A&M University
College Station, TX 77843-3123

Applications will be accepted until the position is filled. Women and other under-represented minorities are especially encouraged to apply.



Texas A&M University is an Equal Opportunity and Affirmative Action Employer

TENURE-TRACK POSITION

Department of Materials Science and Engineering
Stanford University



The Department of Materials Science and Engineering at Stanford University invites applications for a tenure-track position at the junior (untenured) level. Applicants should hold an earned doctorate in a core engineering or science discipline. We welcome applicants with broad expertise in materials science and engineering, particularly those who use computational approaches to problem solving.

We are interested in a person who would collaborate with materials science faculty and students engaged in nano-scale and energy-related materials research, or those in other core areas of nanomaterials and biomaterials in the MSE department involving electronic, optical and photonic, magnetic, and mechanical properties. The successful candidate is expected to contribute to leadership in Stanford's multidisciplinary materials effort which spans several departments and schools, including faculty in Chemical, Electrical, Mechanical, Civil, and Environmental Engineering in the School of Engineering, and in Physics, Applied Physics, Chemistry, and Biology in the School of Humanities and Sciences, as well as at the Stanford Synchrotron Radiation Laboratory. We seek an individual who is committed to excellence in teaching and to the mentoring of students. The successful candidate will be expected to contribute to the teaching program of the department by offering core courses in materials science, as well as by developing new curricula in their own area of specialization.

Applicants should include a summary of their educational and professional background, a current list of published work, evidence of teaching experience, and the names of at least three referees who may be consulted by the search committee. An indication of how the candidate's experience matches the position described above should also be given. Applicants are encouraged to write brief descriptions of their plans for future research and how those plans might be realized in a Stanford setting, as well as to submit similar statements on teaching, focusing especially on their vision of teaching to students in the Department of Materials Science and Engineering. The appointment is expected to be made during 2009; applications should be submitted in the format of electronic PDF files, by **December 8, 2008**, to:

Professor Robert Sinclair
Chair, Search Committee
Department of Materials Science and Engineering
Stanford University
Stanford, CA 94305-4034
Phone: 650-723-1102
Fax: 650-725-4034
E-mail: mse_fac_srch@stanford.edu

Stanford University is an equal opportunity employer and is committed to increasing the diversity of its faculty. It welcomes nominations of and applications from women and members of minority groups, as well as others who would bring additional dimensions to the university's research and teaching missions.

Positions Available



**SR. ENGINEER METALLIZATION/METALLURGY
BSST LLC**

BSST, a leader in Climate Control and Power Generation applications in high efficiency thermoelectric (TE) technology, works in partnership with their customers to create the most effective solutions to meet their needs. The BSST team develops a thorough understanding of the technical, physical, environmental and economic aspects of the subject application. Proprietary advanced temperature control technology is applied to develop and provide innovative TE assemblies and subassemblies. For more information on the company, access www.bsst.com. BSST's parent company, Amerigon, Inc., is the world's largest user of TE materials for automotive applications. Visit www.amerigon.com for more information.

Summary:

BSST is seeking a highly motivated experienced individual to join their team in Irwindale, California. The Sr. Metallurgy Engineer will focus on two primary areas: developing low contact resistance metallization solutions for thermoelectric materials, and developing joining techniques for thermoelectric materials and other device elements.

The scope of the job will address diverse semiconductor and metal material systems and wide temperature ranges. This is a challenging opportunity for a material scientist/engineer who will be contributing to core competency, high value-added technology component strategically important for the success of the company.

Essential Duties and Responsibilities:

- Devise metallization procedures for rapid turnaround device-level testing of prospective thermoelectric materials.
- Source and manage rapid metallization and bonding of prospective TE materials by outside services.
- Devise chemical compositions and specify processes for diffusion, contact and bonding layers.
- Arrange outside services for reliable, fast testing of suggested metallization schemes.
- Analyze the results using internal facilities and external analytical labs.
- Assure the availability of cost-effective production feasibility of chosen metallization approaches.
- Contribute metallurgy expertise to the team engineering activities in thermoelectric engine development.

Supervisory Responsibilities:

The Sr. Metallurgy Engineer will report to the Director, Emerging Materials and will work within a matrix organization with a team comprised of functional skills specialists. This individual may have direct supervisory responsibility for one or more technicians.

Qualifications:

1. Experience with low contact resistance metallization of semiconductors, preferably with elevated usage temperature, with emphasis on thermocycling stability.
2. Experience with translating information from phase diagrams of diverse material systems into potential metallization recipes.
3. In-depth understanding of current technologies in the solder and brazing industries and experienced in the development of new techniques and processes to facilitate these joining processes.
4. Experience in metallization and surface activation methods, and the use and development of active brazing, soldering and hot pressing processes.
5. Hands-on experience with metallization of semiconductors, bonding and analysis.
6. External resource management when partnering with outside entities for services outsourcing.

Education and/or Experience:

Masters degree in Material Sciences, Metallurgy, Metallurgical Engineering or Semiconductor Manufacturing is required; advanced science or engineering degrees highly desired. Ten years experience in the semiconductor, photovoltaic, thermoelectric or similar industry is required. Must have a demonstrable, quantifiable track record of success in efficiently and rapidly developing metallization solutions. Experience in high temperature (600 to 1000°C) materials systems is desired.

Application Procedure:

If you are interested in exploring this opportunity please submit your resume (Microsoft Word files preferred) via e-mail or feel free to contact us at the phone numbers below. We will make arrangements to interview you as soon as possible.

**Carol Lowe Raymer, President • CONNECTIONS EXECUTIVE SEARCH • carol@connections-search.com
714-674-0420 Office • 714-928-2004 Cell**

Positions Available



**TENURE TRACK
FACULTY POSITION
School of Biomedical Engineering
and Department of Mechanical
Engineering
Colorado State University**

The Department of Mechanical Engineering and School of Biomedical Engineering at Colorado State University invites applicants to apply for a full-time, nine-month, tenure-track, Assistant Professor position beginning Fall 2009. Applicants must have an earned doctorate in engineering or a related science by January 2009 and demonstrated ability or potential to develop a funded research program that complements our existing research programs.

Preferred competence areas within the Biomedical Engineering Field include cancer, biofluids and transport, cardiovascular applications, bioimaging/nanotechnology, and systems engineering for biomedical applications; however, highly qualified candidates in any area of biomedical engineering will be considered for the position. In addition, it is preferred for the applicant to have postdoctoral experience in an academic, government, or industrial setting and have had experience with federal funding (NIH, NSF, etc.) agencies.

See www.engr.colostate.edu/me/search/ for more details on this position and the application process. Applications will be considered until the position is filled; however, applicants should submit applications by **December 12, 2008** for full consideration. Colorado State University conducts background checks on all final candidates.

CSU is an EO/AA employer.

CRYSTAL GROWTH SCIENTIST OR ENGINEER

Our client is a highly successful Canadian manufacturing company supplying multiple customers in a rapidly expanding international market. This is a chance to get into a very dynamic organization with strong growth outlook, creating many opportunities for professional growth. The company prides itself in customer satisfaction, continuous process improvement, sustainable development, and providing a sound and safe work environment.

JOB DESCRIPTION SUMMARY

This full-time function is primarily focused on the bulk growth of compound single crystals. The selected individual will be working in a combined role of research and development and process engineering.

MAJOR RESPONSIBILITIES

- Identification of optimal growth techniques for the desired compounds and products;
- Developments of the crystal growth processes;
- Design, maintain, and operate the crystal growth equipment;
- Optimize the crystal growth processes for quality, yield, and throughput improvements;
- Implement processes for data collection, process control, design of experiments, process documentation and operator training;
- Determine root causes and corrective actions for failed processes;
- Transfer optimized processes to Manufacturing.

EDUCATION, EXPERIENCE, AND SKILLS REQUIRED

BS in Material Science, Physics, Chemistry or related Engineering field is required. Graduate studies a strong plus. Significant hands-on bulk crystal growth experience is required, as well as hands-on experience in growth apparatus design and construction. Must be a self-starter and have excellent analytical skills as well as good verbal and written communication skills. Must be allowed to work in Canada.

BENEFITS

Bonus plan, and competitive benefits. Relocation assistance available.

CONTACT INFORMATION

Please submit your resume to: crystalgrowth@hodes.com

2008 MRS Fall Meeting



Career Center

Meet Your Next Employer ...

Show off your talents to the world's most prestigious universities, laboratories and high-tech firms. FREE of charge to all MRS Members, the Career Center provides targeted employment opportunities to candidates seeking positions in the scientific community.

- Review open positions tailored to the materials research industry
- Interview with prospective employers
- Visit on-site recruitment booths and network with technical staff

Location & Hours

Hynes Convention Center • Exhibit Hall (Level 2)

Monday, December 1 (*Registration only*)..... 1:00 pm – 4:00 pm
 Tuesday, December 2..... 11:00 am – 5:30 pm
 Wednesday, December 3..... 11:00 am – 5:30 pm
 Thursday, December 4..... 10:00 am – 1:30 pm

For additional information, visit www.mrs.org/f08_cc

Member Alert!

Do the research to advance your career... visit the MRS Career Center today!

Positions Available



FACULTY POSITION
Materials Science and Engineering Department
University of Texas at Arlington

The Materials Science and Engineering (MSE) Department at the University of Texas at Arlington (UT Arlington) invites applications for a faculty position at the rank of assistant (tenure-track) or associate professor (tenure-track or tenured). The candidate must have an earned doctorate in engineering or science and show strong commitment to teaching and the ability to develop and sustain a nationally competitive externally funded research program. To be considered for a tenured position, the candidate must have national and international recognition. Preferred research areas include, but are not limited to, electronic materials, nanomaterials, biomaterials, and materials for energy applications. Outstanding candidates with research specializations in other materials areas will also be considered. The position is interdisciplinary and the candidate must demonstrate an ability to interface with faculty in both the sciences and engineering. Duties include but are not limited to teaching at both the undergraduate and graduate levels, supervision of graduate students, and conducting funded independent research. The compensation package is competitive and will be commensurate with qualifications.

The MSE Department is primarily a graduate program that offers masters and doctorate degrees with excellent research facilities and a campus-wide Materials Characterization Center (<http://ccmb.uta.edu>). It has eight faculty members and more than 70 graduate students. Additional research facilities exist at the NanoFab Teaching and Research Facility (www.nanofab.uta.edu). Ample opportunities in an interdisciplinary environment also exist at ARRI (Automation and Robotics Research Institute, www.arri.uta.edu). UT Arlington is located in the center of the Dallas-Fort Worth metroplex and has an enrollment of approximately 25,000 students.

Review of applications will begin immediately and will continue until the position is filled. Interested candidates should submit by mail, a letter of application, a complete resume, a description of future research plans, copies of up to three representative papers, and contact information of at least four references to:

Chair, MSE Search Committee
 Materials Science and Engineering Department
 The University of Texas at Arlington
 P.O. Box 19031
 Arlington, TX 76019-0031

This is a security sensitive position, and a criminal background check will be conducted on finalists.

The University of Texas at Arlington is an Equal Opportunity & Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE
Applied Sciences Laboratory
Washington State University

Washington State University's Applied Sciences Laboratory (ASL) is seeking a Postdoctoral Research Associate for advanced materials processing. The research focus is on synthesis and testing of new alloys/composites. For more information, visit www.asl.wsu.edu/site/careers.html.

EEO/AA/ADA

DEPARTMENT OF ENERGY COMPUTATIONAL SCIENCE

GRADUATE FELLOWSHIPS



Benefits Include:

- A competitive yearly stipend of \$32,400
- Payment of tuition and required fees
- Research practicum at a DOE laboratory
- Yearly fellows conference
- Renewable for up to four years

Application Deadline:

January 14, 2009.
 For more information, visit:
www.krellinst.org/csgf



Contact: The Krell Institute
 1609 Golden Aspen Drive,
 Suite 101, Ames, IA 50010
 515.956.3696
csgf@krellinst.org
www.krellinst.org/csgf



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 This is an equal opportunity program that is open to all qualified persons without regard to race, sex, creed, age, physical disability or national origin.



For more information visit: www.krellinst.org/csgf

FACULTY POSITION
Department of Mechanical Engineering



The Johns Hopkins University, Department of Mechanical Engineering, invites applications for a full-time tenure-track faculty position in the general area of mechanics and materials. Modeling and simulations are of particular interest, but all outstanding candidates will be considered. Opportunities for interactions across the University include the Institute for NanoBioTechnology, the NSF MRSEC on Nanostructured Materials, the Whitaker Biomedical Engineering Institute, the Institute of Computational Medicine, the Center for Advanced Metallic and Ceramic Systems, and the NSF Engineering Research Center for Computer-Integrated Surgical Systems and Technology.

Preference will be given to applicants at the assistant professor level, but exceptionally qualified candidates at all ranks will be considered. The successful candidate must have a doctorate, and is expected to establish a strong, independent, internationally recognized research program as well as contribute fully to both undergraduate and graduate instruction.

All applications should be submitted electronically (before **January 15, 2009**) as a single PDF document to me-search@jhu.edu. Electronic applications should include a cover letter describing the principal expertise of the applicant, a statement of teaching and research interests and experiences, a complete resume, and the names of at least three references.

The Department is committed to building a diverse environment; women and minorities are strongly encouraged to apply. The Johns Hopkins University is an EEO/AA Employer.

FACULTY POSITION IN NANOTECHNOLOGY



**Masdar Institute
of Science and Technology
Abu Dhabi
United Arab Emirates**

The Masdar Institute of Science and Technology is seeking applications for a full-time Associate or full Professor in Nanotechnology available to begin immediately. Applicants should have excellent research capabilities, a demonstrated capacity to explore advanced nanotechnologies, and be fluent in English. Candidates should have a PhD degree in engineering or science as well as demonstrated research excellence in at least one of the following areas:

- Micro/Nanofabrication
- Nanomaterials
- Nanodevices
- MEMS/NEMS and Applications
- Micro/Nano Sensors and Actuators
- Nano-Optoelectronics

The Masdar Institute is committed to establishing strong, world-class research in nano-scale materials, structures and devices for a wide range of applications including renewable energy, sensors, LEDs, advanced organic-inorganic devices, micro- and nano-electronics. Preference will therefore be given to outstanding candidates with a demonstrated expertise and a strong record of published research in one or more of these areas.

Job Requirements

This is an interdisciplinary position. The successful candidate will have experience with nanofabrication and clean-room techniques such as lithography, lift-off, etching, RTA, thin-film deposition, and processing. Also desired is expertise in analytical tools like SEM, EDS, XRD, AFM, TEM, Raman, and XPS for structural, morphological, and chemical characterization, and in optical and electrical investigation of nano-materials, structures, and devices.

Responsibilities include: developing and teaching graduate courses in nanoscience and nanotechnology, supervising master's and doctoral students, developing a research program, seeking external funding for such research, and participating in the Institute's service and outreach activities.

About the Institute

The Masdar Institute of Science and Technology is a new and independent non-profit, tax-exempt research and educational institution, founded with the assistance and advice of the Technology and Development Program at the Massachusetts Institute of Technology (MIT). Offering graduate-level courses in Abu Dhabi for a highly-select student population, The Masdar Institute is dedicated to premier engineering research and the provision of a definitive, research-driven education. For more information, visit <http://www.masdar.ac.ae/> and <http://web.mit.edu/mit-tdp/www/>.

Application Submittal Information

The Technology and Development Program at MIT is assisting the Masdar Institute in the search. Initial screening of applications will begin immediately. Application materials should include your name, address, telephone numbers, curriculum vitae, the specific position you are applying for (Assistant Professor, Associate Professor, or Full Professor), your current position, a description of how your experience matches the position requirements, and e-mail contact information for three references.

Materials must be submitted electronically on or before **December 15, 2008** as a MS Word attachment to:

Dr. Marwan Khraisheh, Acting Provost
Co-Chair, Search Committee for Masdar Institute of
Science and Technology
The Masdar Institute of Science and Technology
Abu Dhabi, United Arab Emirates
E-mail: mkhraisheh@mist.ac.ae

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