

Positions Available

DEPARTMENT CHAIR

Department of Chemical & Metallurgical Engineering University of Nevada–Reno

The Department of Chemical & Metallurgical Engineering at the University of Nevada–Reno, the land grant University of the State of Nevada, invites applications for the position of Department Chair. The Department offers Undergraduate degrees in Chemical Engineering and Materials Science and Engineering, and MS and PhD degrees in Chemical Engineering and Metallurgical Engineering. The Department has ten faculty members, about 130 undergraduate, and about 40 graduate students. Research awards, new and continued, for the period 1-1-06 to 9-30-06 amounted to \$12.2 million; additional awards, expected to start after 1-1-07 are ~ \$7.5 million. We seek a dynamic person who will help the Department increase the research activity in existing and emerging technologies in Chemical and Materials Science Engineering.

Responsibilities: The chair is responsible for the academic quality, operational effectiveness, human resource development, and growth of the Department. Duties include overseeing all curriculum developments, especially those related to the undergraduate programs ensuring consistency with the ABET accreditation requirements; playing a key role in developing a strategic plan; handling the finances in a responsible manner; providing leadership for the development and implementation of new emphasis areas and/or programs; developing professional alliances both internal (University) and external (community, industry) for the benefit of students and faculty; and creating an environment for promoting and increasing research activities.

Qualifications: Candidates must hold an earned PhD degree in Chemical or Materials Science Engineering or in a closely related Engineering field, have a proven record of excellence in scholarly activities (funded research, publications, etc.) and education, and possess strong leadership, management experience, and human relations skills.

Application Deadline and Procedures: Applicants must submit electronically a full CV and a statement of personal objectives for research and education. To apply, please visit www.unrsearch.com/applicants/Central?quickFind=51846.

Review of the applications will begin on **March 5, 2007** and continue until the position is filled. Anticipated starting date is July 1, 2007.

EEO/AA



FACULTY POSITION Department of Manufacturing Engineering Boston University

The Department of Manufacturing Engineering at Boston University invites applications for a tenure-track position in the area of computational materials science and engineering at the assistant professor level. An appointment at the associate or full professor level will also be considered for extraordinary candidates. The successful candidate should have a PhD degree in a relevant field of engineering or applied science, and should have demonstrated ability to sustain a funded research program. The candidate should be able to lend computational expertise to our research efforts in any of the following areas: green materials science and engineering, green energy systems design and life cycle analysis, bio-materials for energy generation and conversion, micro-energy systems, polymeric materials for energy conversion, nano materials technology in green energy applications, materials processing technologies, sensor development, and other emerging materials technologies. The candidate should also be able to contribute to the development of a sound graduate program and teach undergraduate courses in materials science and engineering.

The Department of Manufacturing Engineering has strong research programs in materials science and engineering, MEMS/NEMS, manufacturing systems, process control, sensor networks, machine design and automation. The department is further strengthened by its close affiliation with the collocated Fraunhofer USA Center for Manufacturing Innovation, the Center for Information and Systems Engineering, and the Photonics Center. The department offers a strong multidisciplinary undergraduate and graduate curriculum in Manufacturing Engineering that is rated among the best in the country.

Please submit a current curriculum vitae, three references, and a one-page summary of research objectives to:

Professor Soumendra Basu
Chair, Faculty Search Committee
Department of Manufacturing Engineering
Boston University
15 St. Mary's Street
Brookline, MA 02446
<http://www.bu.edu/mfg>

Boston University is an equal opportunity, affirmative action employer.

FACULTY POSITION

Advanced Electronic Materials and Devices for Alternative Energy Applications Department of Electrical Engineering and Computer Science The University of Toledo

The Department of Electrical Engineering and Computer Science (EECS) in the College of Engineering at the University of Toledo invites applications for a tenure-track faculty position to begin in Fall 2007. Faculty rank will be commensurate with the qualifications of the successful candidate. Candidates are sought with expertise in advanced electronic materials and device fabrication/characterization with particular interests in large area electronics and photovoltaics that utilize next generation nanostructured materials and/or thin films. Collaborative multidisciplinary research experience is desirable for participation in a college-wide advanced materials thrust and University and Ohio-wide alternative energy thrusts.

A PhD degree in Electrical Engineering, Materials Engineering, or a related engineering/scientific discipline is required. The successful candidate will be expected to (i) establish a self-sustaining, externally funded research program involving graduate and undergraduate students; (ii) teach at all levels and develop new courses in alternative energy devices;

(iii) interact with physics faculty in thin film photovoltaics as well as with industry scientists and engineers; and (iv) lead or participate in research initiatives on the regional, state, and federal levels including a recently-funded State of Ohio Center for Photovoltaics Innovation and Commercialization. A competitive start-up package and salary will be available.

Consideration of qualified candidates will begin after **March 1, 2007**. The position will remain open until the appointment is made. Please send a letter of application, a current curriculum vita, a brief narrative of research and teaching interests, and the names and contact information of three references to: College of Engineering EECS Faculty Search, Attn: Patricia Mowery, 5012 Nitschke Hall, MS 310, The University of Toledo, 2801 W. Bancroft Street, Toledo, OH 43606-3390. Applications will also be accepted by e-mail at pmowery@eng.utoledo.edu (please include EECS Faculty Search in the subject line). Prospective applicants can learn more about EECS and the University at www.eecs.utoledo.edu and www.utoledo.edu.

The University of Toledo is an equal access, equal opportunity, affirmative action employer and educator.

POSITIONS AVAILABLE

The Masdar Institute of Science and Technology

Abu Dhabi, United Arab Emirates

The Masdar Institute of Science and Technology, a new and independent non-profit, tax-exempt research and educational institution, is being founded with the assistance and advice of the Technology and Development Program at the Massachusetts Institute of Technology (MIT). Initially 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. The goal of the Institute is to develop, over a period of years, indigenous research and development capacity in Abu Dhabi, addressing issues of importance to the region in areas as critical as: renewable energy, sustainability, environment, water resources, systems engineering and management, transport and logistics, and advanced materials. The mission and government supported mandate of The Masdar Institute is to provide qualified men and women in the region with the opportunity to obtain graduate degrees in these critically important and globally-relevant technical fields.

The Masdar Institute is seeking applicants for the positions listed below.

PROVOST

Responsibilities The Provost is the Chief Academic Officer of the Institute and serves as the executive officer. The Provost is involved in all major policy decisions of the Institute and works with the President to provide leadership to the institution to create a 21st century graduate institution with a clear focus on student success through academic excellence, strong institutional partnerships, scholarship, meaningful service to the region, and effective resource utilization

Qualifications: The successful candidate must possess impeccable character and personal integrity and have an earned doctorate coupled with a record of substantial scholarly achievement meriting appointment as a tenured full Professor in one of the academic departments; significant academic administrative experience and seasoned leadership skills; proven credentials in management, including budget development and academic, administrative, and strategic planning, as well as evidence of successful experience in the areas of curriculum development and outcomes assessment and with integrating information technology for academic programs and distance learning; demonstrated skills and commitment to cultivating excellence in scholarship, teaching, and public services; and demonstrated commitment to cultural diversity and shared governance. The successful candidate must be a collaborator and team player who is skillful in promoting a collegial work environment and can foster an environment that attracts, retains, and engages faculty and staff of the highest quality.

VICE PRESIDENT FOR RESEARCH

Responsibilities: The Vice President for Research will lead a vibrant and complex interdisciplinary research and academic institution of higher learning. This individual is expected to work closely with the various levels of administration (deans, chairs, principal investigators and center/institute directors), faculty and student governance, staff councils, regional centers, and national labs.

Will have direct responsibility for creation and review of large interdisciplinary research centers and institutes; faculty research startups and retention packages and seeding of initiatives and internal research programs; institutional-wide research affiliations/memberships; private/public partnerships that impact research; addressing the research agenda and mission of the Institute; research compliance, policies, ethics and conflict of interest; management of research space, animal care, and human subjects; material transfer and confidentiality agreements; liaison to sponsor negotiations and export controls; intellectual property portfolio; sponsored program data and office of contracts and grants, institutional research marketing publications, and institutional workshops on proposal writing and funding opportunities.

Qualifications: Seasoned academic administrator with at least ten years of leadership experience in research operations. The ideal candidate will have a demonstrated ability to provide strategic leadership to collaborative research efforts as well as a track record of creating a working environment that rewards new ideas and innovation, builds collaborations, encourages and nurtures teamwork, and promotes diversity.

The applicant should be familiar with the land grant research university environment as well as current trends in technology transfer, patenting and licensing, research administration best practices, and compliance regulations.

Applicant should be perceived as a visionary leader with demonstrated success in obtaining extramural funds and fundraising; evidence of a thorough understanding of federal agencies, national and international research organizations, institutional partnerships and collaborations, public and private organizations, evidence of success in managing others; demonstrated research excellence within an academic or related setting; an appreciation for a broad range of research and scholarship; experience with research infrastructure, contract and grant administration, national and state policies; information systems; consensus building; measures of accountability; community outreach; corporate opportunities and interests; strategic planning; evidence of successful decision-making in complex environments and situations; budgeting; and developing prospecting plans. An earned doctorate is prerequisite.

VICE PRESIDENT FOR BUSINESS OPERATIONS

Responsibilities: The Vice President for Business Operations reports to the President and Provost of the Institute and will direct and oversee system-wide management of the Institute's business operations at all of the Institute's facilities. Institute business operations include human resources, information technology, procurement, facilities, research administration, compliance and audit, laboratory administration, security and public safety. This individual will lead and manage Institute policies, systems and procedures, plan and supervise the departmental budget, and serve as a liaison, both internally and externally, for the various business operations of the Institute.

Qualifications: The successful candidate should have strong leadership skills, the ability to work successfully with a broad range of constituencies, and a demonstrated track record of identifying and implementing administrative process changes and improvements. A Master's degree and a minimum of five to ten years of general management experience in a large, complex business, academic, government or not-for-profit organization is required. Leadership experience in private, not-for-profit higher education institutions is highly preferred. Candidates should be able to demonstrate an in-depth knowledge of the full range of issues addressed by an administration and finance executive in the graduate education setting. Proficiency and knowledge of business practices and organizational leadership in changing environments is essential and candidates must have superior oral and written communication skills, excellent motivational techniques, sophisticated computer applications, and experience in management, financial analysis, and legal aspects of higher education partnerships and affiliations.

PROFESSORS, ASSOCIATE PROFESSORS, ASSISTANT PROFESSORS

Responsibilities: Teach graduate courses; supervise master and doctoral students; develop research projects; acquire external funding for research; and take active and progressive part in the Institute's service and outreach activities.

Qualifications: Applicants must have a strong record of published research, experience in supervising research of graduate students, and relevant teaching experience at the university level. As the medium of instruction at the Institute is English, the applicant must be fluent in English. An earned doctorate in the relevant field is required. Relevant non-academic work experience would be an advantage. The successful candidates should possess a collaborative personal workstyle, strong team-building capabilities, and display a goal-oriented, energetic personality.

Applicants are being sought in the fields listed below.

Energy and Environment

- Energy Technology (renewable, alternative energy systems, energy system planning, biomass, and biofuels)
- Electric Power System Design and Analysis
- Sustainability (pollution, climate change, water, and life-cycle analysis)
- Environmental and Energy Economics
- Energy Policy

POSITIONS AVAILABLE

Industrial and Systems Engineering

- Economic Decision Analysis (engineering economics, computer systems engineering, simulation, risk-benefit analysis, stochastic processes, and operations management)
- Industrial Engineering
- Industrial Information Systems
- Manufacturing (process control and instrumentation, system architecture, principles of axiomatic design, and project management)
- Human-Machine Systems (robotics and process control)
- Logistics, Mathematical Programming, and Statistics

Materials Science and Engineering

- Characterization
- Mechanical (electronic, optical, and magnetic properties)
- Nanomechanics
- Corrosion and Environmental Effects
- Manufacturing
- Materials Processing
- Computational Materials Science
- Economics of Materials

Mechanical Engineering

- Thermal Sciences (fluid mechanics, heat transfer, thermodynamics, energy and environments)
- Materials (composites and corrosion)
- Manufacturing (applications, processing, and modeling)
- Topics Relating to Dynamics, Control, and Design

Information Technology

- Software Engineering
- Information Processing for Engineering Systems
- Database, Internet, and Systems Integration Technologies
- Communications and Connectivity among Information Systems
- Information Management
- Intelligent Systems
- Operating Systems
- Pervasive Computing
- Multimedia and Video Processing
- Applied Theory

APPLICATION SUBMITTAL INFORMATION

The Technology and Development Program at the Massachusetts Institute of Technology is assisting in the search. Initial screening of applications will begin immediately. Applications must be received electronically by the Search Committee Co-Chairs by **March 30, 2007**. Submissions should include the applicant's name, present position, postal and e-mail addresses, and telephone numbers. Application materials should include a description of how the candidate's experiences match the position requirements; a detailed curriculum vitae and summary document; and specific contact information for a minimum of three professional references familiar with the candidate's qualifications and experience.

Materials must be submitted electronically on or before **March 30, 2007** as a MS Word attachment to:

Professor Fred Moavenzadeh, Co-Chair

Search Committee for The Masdar Institute of Science and Technology
Technology and Development Program
Massachusetts Institute of Technology
E-mail: TDPmail@mit.edu

Mr. Sultan Al Jaber, Co-Chair

Search Committee for The Masdar Institute of Science and Technology
Office of Institutional Development, Abu-Dhabi, United Arab Emirates
E-mail: saljaber@mubadala.ae

Positions Available

Imperial College London

Department of Materials

Chair in Materials

Salary: Professorial minimum is £57,000 per annum

Imperial College is ranked in the top ten universities of the world, according to the 2006 Times Higher Education Supplement league tables

Applications are invited from outstanding individuals for a Chair in Materials at Imperial College London in the 5A-rated Department of Materials.

You will be expected to plan and direct the implementation of research activities and programmes of outstanding quality, international repute and innovation in Materials Science and Engineering and advance the reputation of the Department and the College.

The post will be permanent and full-time and is available immediately.

Further details of the departmental research activities may be found at <http://www3.imperial.ac.uk/materials> Informal enquiries may be directed to the Head of Department, Professor Bill Lee (w.e.lee@imperial.ac.uk).

Further particulars of this appointment are on:
<http://www.imperial.ac.uk/employment/academic/>

A full curriculum vitae, application form and a recruitment monitoring form should be sent to: Janet Jones, Appointments Officer (Professors and Readers), Human Resources Division, Level 3 Faculty Building, Imperial College London, London SW7 2AZ. Email: janet.jones@imperial.ac.uk

Closing date: 28 February 2007.

Valuing diversity and committed to equality of opportunity

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

Immediate opening available for a Research Associate/Research Scientist at the Center for Nanoscale Science and Engineering at North Dakota State University (www.ndsu.edu/cnse). Requires PhD degree in Materials Science & Engineering, Chemistry, Chemical Engineering, or related field; experience in depositing hard coatings via plasma-based deposition routes, and correlating microstructural and compositional characterization of hard coatings with tribology/wear properties (i.e., structure-property relationships); strong publication record in peer-reviewed journals; good interpersonal and team building skills; good oral and written communication skills; and proficient computer skills. Salary is commensurate with experience plus excellent benefits. Screening begins **February 28, 2007**. For further information and qualifications, including how to apply, see www.ndsu.edu/jobs/non_broadbanded/.

An equal opportunity institution.

TENURE-TRACK FACULTY POSITIONS Department of Advanced Materials and Nanotechnology Peking University

The Department of Advanced Materials and Nanotechnology (AMN) in the College of Engineering, Peking University, Beijing, China, invites applications in all ranks in all areas of nano, bio, and related fields with focuses on novel nanomaterials, nanodevices, nanosystems, bio-inspired/enabled materials/processes, nanotechnology for bio-sensing and -detection, new materials for biomedical, energy, environment, and other special applications. We are also seeking world leading scientists who can initiate and lead new research directions. Positions are immediately available at all ranks. Competitive salary, start-up package, and laboratory facilities will be provided. More information is available at <http://coe.pku.edu.cn>.

Applicants should have a PhD degree in science, engineering, or a related field. Candidates must have a proven track record of high quality scientific publications, and must have excellent communications skills. Interested applicants should submit the following: 1) extended curriculum vitae (with complete list of publications); 2) statement of current and future research interests; 3) statement of teaching philosophy; 4) selected three recent representative papers; and 5) a minimum of three references and full contact information. Contact:

Faculty Search Committee, c/o Yan Liang
Department of Biomedical Engineering
College of Engineering, Yan-Nan Yuan #60
Peking University, Beijing, China 100871
Phone: 86-10-62757426; Fax: 86-10-62757532

METALLURGIST Cookson Electronics

Cookson Electronics, a world leader in the development, manufacturing, and sales of innovative materials used in the electronic and industrial assembly process, is seeking a Metallurgist for their Altoona, PA location. The incumbent will be responsible for conducting product and process development activities in the manufacture of solder products, as well as providing metallurgical support for manufacturing, sales, and other operational functions.

The candidate we are seeking will have a minimum of four years experience in materials science/metallurgy preferably working with tin/lead and in pyrometallurgy. Previous experience in smelting or extraction metallurgy or in powder manufacture preferred.

This position of considerable responsibility offers a competitive salary and comprehensive benefits package including medical/prescription and dental coverage, disability and life insurance, paid vacation/holidays, and 401K with profit sharing. Please apply at:

Cookson Electronics
Human Resources
4100 Sixth Avenue
Altoona, PA 16602
Fax: 814-943-7268
E-mail: resume@cooksonelectronics.com

EEO

Chapter ²⁰⁰⁷ Challenge

For more information, visit—

www.mrs.org/chapter_challenge

Positions Available

FACULTY POSITION IN APPLIED PHYSICS

The Applied Physics Program at Caltech invites applications for one tenure track position as assistant professor. We are seeking highly qualified candidates who are committed to a career in research and teaching. Exceptionally well-qualified candidates may be considered at the associate or full professor level. In addition to applicants from traditional areas including device and/or materials physics we are interested in applicants with interdisciplinary backgrounds spanning these and other areas such as biology and chemistry.

Interested applicants should submit an electronic application by visiting <http://www.eas.caltech.edu/search/aph>. You will be asked to upload the following pdf documents: CV, research statement, three publications, and the names and contact information for three references.

The term of the initial appointment is normally four years, and appointment is contingent upon completion of all the requirements for a Ph.D.



CALIFORNIA INSTITUTE OF TECHNOLOGY
Division of Engineering and Applied Science
Caltech is an Equal-Opportunity/Affirmative-Action Employer.
Women, minorities, veterans, and disabled persons are encouraged to apply.

MoMA The Museum of Modern Art**ASSISTANT/ASSOCIATE RESEARCH SCIENTIST**
The Museum of Modern Art

The Museum of Modern Art has an opening for an Assistant/Associate Research Scientist in the conservation department. The successful candidate will have the opportunity to work with members of the conservation department to analyze and conduct basic research on the museum's unparalleled collection of modern and contemporary art. Position includes support for travel and research collaborations.

Send curriculum vitae, references, and one-page summary on how your expertise and interests will advance the technical knowledge of media found in the collection. For an introduction to the collection, visit <http://moma.org/collection/>. Qualifications include advanced degree in field related to analytical sciences applied to chemistry, physics, environmental, or material science. Send application to:

James Coddington, Agnes Gund Chief Conservator
 The Museum of Modern Art
 11 West 53rd Street; New York, NY 10019

Application closing date is **June 1, 2007**.

The Museum of Modern Art is an equal opportunity employer and considers all candidates for employment regardless of race, color, sex, age, national origin, creed, disability, marital status, sexual orientation, or political affiliation.

Place your Ad Today!

Contact—

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

**WRIGHT CENTER OF INNOVATION (WCI)
 ENDOWED CHAIR IN PHOTOVOLTAICS
 Department of Physics and Astronomy
 The University of Toledo**

The Department of Physics and Astronomy at the University of Toledo invites applications for the Wright Center of Innovation (WCI) Endowed Chair in Photovoltaics to begin August 2007. The successful candidate is expected to play a key role in establishing and sustaining the recently-awarded Center for Photovoltaics Innovation and Commercialization (PVIC), a State of Ohio supported Wright Center of Innovation expected to operate at an annual funding level of at least \$16M, including both state and member cost share contributions. PVIC is a statewide initiative that spans the full value chain of photovoltaics (PV) research, development, and education; it encompasses the following activities: incubation of third generation nano-materials and devices, demonstration of novel concepts in second generation thin film technologies including photoelectrochemical generation of hydrogen (PV-H₂), market entry with lower cost thin film products and balance-of-systems approaches, installation of residential and utility scale systems, and public education and promotion of PV in Ohio. Institutions collaborating with the University of Toledo in PVIC include Ohio State University, Bowling Green State University, Battelle Institute, Edison Materials Technology Center, Green Energy Ohio, and thirteen Ohio companies—eight in the Toledo area. The candidate must have expertise in one or more of the three generations of PV and PV-H₂ materials and devices: 1) wafer and multicrystalline silicon; 2) crystalline and amorphous thin films including multijunctions; and 3) nanostructured, organic, and hybrid materials; along with interests in linking within the full PV value chain.

A PhD degree in physics or a closely related field is required, plus internationally-recognized contributions to photovoltaics or related alternative energy research. In addition, a sustained track record of federal, state, or industrial support for research and development must be demonstrated. The successful applicant is expected to commit to quality teaching in physics, establish a sustained research and development program that involves undergraduate and graduate students, and participate in PVIC entrepreneurial activities and/or collaborations with industrial partners. We particularly encourage women and minority candidates to apply.

Additional details about the department, PVIC, and the position may be found at <http://www.physics.toledo.edu/facultyposition>. Application materials and requests for more information should be addressed to Endowed Chair Search Committee at physsearch@physics.toledo.edu. In the application package, the applicant should include a CV, research and teaching statements, and the names and full contact information of at least three references. Consideration of applications will begin after **1 March 2007**.

The University of Toledo is an Equal Access, Equal Opportunity, Affirmative Action Employer and Educator.

**RESEARCH SCIENTIST
 Laboratory of Material Science
 Honda Research Institute USA, Inc.**

The Laboratory of Material Science at Honda Research Institute USA, Inc., located in Columbus, OH, invites applications for research scientist positions to begin from August, 2007.

Applicants should hold a PhD degree in Material Science or Physics, or a related science discipline. The successful candidate will be expected to be experienced in optical, Raman spectroscopy, and photoluminescence techniques with applications in nanoscale phenomena, carbon nanotubes, photonic materials, and quantum dots. Experience in the CVD synthesis of carbon nanotubes and preparation of small particles is desirable. Team working and good communication skills are requested. The position is open for a full-time, two-year appointment.

Applicants should forward CV, a list of publications, one-page statement of research interest, and complete contact information for three references to: Fulltime_P06F01@honda-ri.com. Refer to the aforementioned Job Position Number in subject line.

Positions Available



Full Professor Position in Physical Metallurgy

**Department of Materials Science and Geo Sciences
Darmstadt University of Technology**

The Department of Materials Science and Geo Sciences at Darmstadt University of Technology, Darmstadt, Germany has an opening for a full professor position for the 2007/2008 winter semester (starting from October). The department is looking for an internationally renowned scientist in the area of fabrication and properties of new metallic materials (e.g. structure material) including their modelling. The new faculty member will cover the field of physical metallurgy in the materials science curriculum, as well as general lectures on materials science in the undergraduate and graduate levels.

Active involvement in collaborations with colleagues in materials science and other departments, in particular mechanical engineering, is expected. Apart from excellent scientific work, an adequate ability in teaching is desired.

The position is tenure or tenure track with a remuneration package commensurate with experience and qualifications, following the new German "W-Besoldung" category. The regulations for an employment are specified under §§ 70 and 71 HHG (Hessisches Hochschulgesetz). Darmstadt University of Technology is seeking to increase the proportion of female faculty members. Qualified women are especially encouraged to apply. Candidates with disabilities will be preferentially considered in cases of equal qualifications.

Applicants are requested to submit the usual documents, including the curriculum vitae and a statement of teaching and research plans, with reference to the application number 6, to the dean of the department no later than **March 18, 2007**.

Dekan des Fachbereichs Material- und Geowissenschaften, Technische Universität Darmstadt, Petersenstr. 23, D-64287 Darmstadt, Germany



**FACULTY POSITION
Y. Austin Chang
Professor of
Materials Science
and Engineering
University of Wisconsin-Madison**

The Department of Materials Science and Engineering invites applications for a newly established chaired professorship to augment and enhance present departmental strengths in research and teaching. The successful candidate for this prestigious appointment will have a distinguished record that includes (1) international recognition of success and leadership in creative research, (2) excellence and innovation in both undergraduate and graduate education, and (3) service to the profession.

The appointment is anticipated at the full professor level for outstanding candidates. UW-Madison has world-class interdisciplinary opportunities for materials research including an NSF MRSEC and an NSEC and central facilities for materials micro-characterization and nanofabrication. The University is committed to assisting the successful candidate in advancing her or his world-class research.

Unless confidentiality is requested in writing, information regarding applicants must be released upon request. Finalists cannot be guaranteed confidentiality. Applications (CV including contact information for five references, research, and teaching statements) should be submitted to:

Faculty Search Committee, Chair
Department of Materials Science & Engineering
The University of Wisconsin
1509 University Avenue, Madison, WI 53706-1595

Review of applications will begin on **January 15, 2007** and continue until the position is filled.

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



**DIRECTOR
DIVISION OF MATERIALS RESEARCH
National Science Foundation
Arlington, VA**

NSF's Directorate for Mathematical and Physical Sciences (MPS) seeks candidates for the position of Director, Division of Material Research. The incumbent provides leadership and direction to the Division, which is responsible to make new discoveries about the behavior of matter and materials. Information about the Division's activities can be found at <http://www.nsf.gov/mps/dmr/about.jsp>.

Appointment to this Senior Executive Service position may be on a career basis, or on a one-to-three year limited term basis, with a salary range of \$111,676 to \$154,600. Alternatively, the incumbent may be assigned under Intergovernmental Personnel Act (IPA) provisions.

Announcements S20070033A, with position requirements and application procedures are posted on NSF's Home Page at http://www.nsf.gov/about/career_opps/. Applicants may also obtain the announcement by contacting the Executive Personnel Staff at 703-292-8755 (hearing impaired individuals may call TDD 703-292-8044). Applications must be received by **March 15, 2007**.

NSF is an Equal Opportunity Employer.

**FACULTY POSITIONS
Department of Mechanical Engineering
The State University of New York at Binghamton**

The Department of Mechanical Engineering at Binghamton University (State University of New York) invites applications for three tenure-track faculty positions. The department is expanding its current strengths in analysis, design, fabrication, and characterization of micro- and nano-scale systems. Current research activities include the development of organic and inorganic micro-devices and systems. Two of the positions will be filled by candidates having their primary discipline in materials science/engineering. The third position will be filled by a candidate having specialization in mechanical engineering.

Successful candidates will have demonstrated significant research contributions in emerging areas in their disciplines, will be capable of obtaining competitive external research funding, will actively contribute to teaching mechanical and/or materials engineering courses at both the undergraduate and graduate levels, will have excellent communications skills, and will hold a PhD degree at the time of appointment. Appointments at the Assistant, Associate, or Full Professor level will be considered, with exceptionally well-qualified applicants considered at the more senior levels. The Department especially encourages candidates from traditionally underrepresented groups in engineering to apply.

Applicants should submit a letter of application, a curriculum vitae (including a list of publications), statements of research and teaching interests and objectives, and the names and contact information of at least four references to: Department of Mechanical Engineering, SUNY Binghamton, Binghamton, NY 13902-6000. Applicants for the materials science/engineering positions should indicate Position ME 0601 in the address, and applicants for the mechanical engineering position should indicate Position ME 0602 in the address. Review of applications will begin immediately.

The State University of New York is an equal opportunity/affirmative action employer.

www.mrs.org

Positions Available

Faculty Cluster-Hire in Computational Aspects of Multiscale Materials Modeling



To build a diverse workforce Ohio State encourages applications from individuals with disabilities, minorities, veterans, and women. EEO/AA employer.

The Ohio State University has highly ranked departments in the college of engineering and the college of mathematical and physical sciences actively engaged in materials research. Cumulatively, the materials-allied faculty in these departments generate the 3rd highest level of annual expenditures in materials research nationally. In order to build upon international preeminence and to further establish materials research as a university wide enterprise, the university has undertaken the following steps: 1) The Institute for Materials Research (IMR) has been established to coordinate, support and promote cutting edge materials research. 2) The College of Engineering will cluster hire up to 6 new tenure-track faculty members (at all levels) and invest more than \$20 million dollars over a five-year period. The cluster-hiring concept allows for building a team of researchers with complementary strengths in interdisciplinary areas.

While many of the key engineering departments (Computer, Chemical and Biomolecular, Electrical, Industrial and Welding Systems, Materials Science and Engineering, and Mechanical,) are all participating, candidates can be in any one or more of these departments. Ideal candidates should have expertise in multiscale computational modeling specializing in one or more fields specified below:

- Biomaterials
- Computational Thermodynamics and Dynamic Behavior of Materials
- Electronic and Optical Materials
- Materials Joining
- Mathematics for Multiscale Materials Modeling
- Verification, Validation and Uncertainty Quantification of Materials Modeling

Requirements

Develop a world-class research program in one of the areas mentioned above. Teach graduate and undergraduate courses. Outstanding applicants should have a few years of relevant faculty, industry or government experience, demonstrated a record of significant publishing and research funding from industry and government agencies or relevant experience highlighting the ability to build a strong interdisciplinary research program of international reputation.

Qualifications

Candidates should hold a Ph.D. degree; have a distinguished record of scholarship commensurate with experience, exceptional potential for world-class research, and a commitment to both undergraduate and graduate education.

Application Procedure

For consideration, please submit in electronic form your curriculum vitae, statement of research and teaching interests, and the names and contact information for at least three references. Applications will be reviewed on a continual basis and continue until 'all' positions filled.

Please submit applications to:

Layla Manganaro, Administrative Associate
Institute for Materials Research
manganaro.4@osu.edu
E337 Scott Lab, 201 W 19th Avenue, Columbus OH 43210

engineering.osu.edu



FACULTY POSITIONS Materials Science and Engineering University of Wisconsin-Madison

The Department of Materials Science and Engineering at the University of Wisconsin-Madison seeks new faculty at all levels. Successful candidates will develop an internationally recognized research program, demonstrate leadership in attracting extramural funding, dedicate themselves to excellence and innovation in both undergraduate and graduate education, and provide service to the profession.

We seek outstanding faculty pursuing theoretical, computational, and experimental research in areas including structural, biological, energy-related, and electronic materials. Specific topics of interest are ceramics, polymers, nanostructures, and nanobiomaterials. Exceptional candidates will be considered in other emerging areas of materials research.

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

Applicants for tenure-track positions must provide a curriculum vitae, teaching and research plans (each two pages maximum), and three letters of reference. Candidates for tenured positions should include contact information for five references. All materials should be sent electronically to mse.applications@engr.wisc.edu. Questions should be addressed to Professor Max G. Lagally, Faculty Search Committee Chair at 608-263-2078 or email lagally@engr.wisc.edu. Review of applications will begin on **February 15, 2007** and continue until the positions are filled. Unless confidentiality is requested in writing, information regarding applicants must be released upon request. Finalists cannot be guaranteed confidentiality.

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

RESEARCH SCIENTIST AND ASSOCIATE Wildcat Discovery Technologies

Wildcat Discovery Technologies is searching for highly motivated PhD and Research Associate level scientists to join a well-funded startup company in the San Diego, CA area focused on developing and applying new technologies toward the discovery and development of hydrogen storage materials. The successful candidate will have a PhD or BS degree in chemistry/materials science or a related field. Experience with the synthesis of organometallic or inorganic materials (especially metal hydrides) and/or materials analysis tools such as powder X-ray diffraction, electron microscopy, and volumetric or thermal gravimetric analysis is desirable. Please send curriculum vitae, publication/patent list, and list of references to chemistry@wildcatdiscovery.com.

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Positions Available



ENDOWED CHAIR IN ADVANCED FIBER-BASED MATERIALS
School of Materials Science and Engineering
College of Engineering and Science
Clemson University

Clemson University is poised to embark on a challenging enterprise as the beneficiary of a remarkable gift and of the foresight of the state of South Carolina. The School of Materials Science and Engineering (MSE) at Clemson University has been granted a Chair in Advanced Fiber-based Materials, endowed through a donation from the J.E. Sitrine Textile Foundation, and matched by funds from the South Carolina Research Centers of Economic Excellence (RCEE) Act. MSE at Clemson University, in conjunction with the Center for Advanced Engineering Fibers and Films (CAEFF), is soliciting applications and nominations for the J.E. Sitrine Textile Foundation Endowed Chair in Advanced Fiber-Based Materials. The Sitrine Chair will be a preeminent scholar with an international reputation for research into the next generation of organic fiber based materials. The Sitrine donation, together with the state RCEE match, will provide an endowment of up to \$8 million; the Chair is charged by the RCEE Act to focus on knowledge-based economic development as well as the traditional academic excellence expected of a chaired professor. The Chair will be supported in the economic development requirement through partners in this endeavor that include the Spiro Institute for Entrepreneurial Leadership.

The Sitrine Chair will be a dynamic, innovative leader with a distinguished track record of scholarship. The Chair will have an earned doctorate in materials science or closely related discipline with 10-plus years of academic and/or relevant industrial experience. Of particular interest are persons with research experience in biologically inspired materials and advanced functional polymers (including nanoscale materials, conducting polymers, and smart materials). The Sitrine Chair will have extensive industrial and governmental contacts, a solid history of international, interdisciplinary research, support and outreach activi-

ties, and a proven innovation record as evidenced by patents and licensed/commercialized technologies. The candidate will also be entrepreneurially minded having either created or consulted with new firms or have quantifiably contributed to business development or technology entrepreneurship. As a faculty member within the School of Materials Science and Engineering, the responsibilities of the Chair will include development and teaching of undergraduate and graduate courses, establishment of a strong and sustained research program, and demonstration of service to the University.

Nominations should include a brief introduction to the nominee, including his or her contact information. Applicants should submit a letter stating interest in the position that cites experience relevant to the above-noted candidate qualities, a curriculum vitae, and names and contact information for five references. Additional supporting documentation will include a statement of envisioned purpose and goals to be pursued as the Chair, including a teaching, research, and entrepreneurship philosophy statement, of 1-2 pages on each topic, apropos the above statements on the Endowment vision and objectives. Informal inquiries, applications, and nominations should be directed to Dr. Michael Ellison, Chair of the Search Committee, at the address below. All application materials must be received by **March 1, 2007** to receive full consideration; however the search will remain open until the position is filled. We expect that the position will be filled in August 2007, or at the latest, January 2008.

Michael S. Ellison, PhD, Professor
 School of Materials Science & Engineering
 161 Sitrine Hall, Clemson, SC 29634-0971
 Phone: 864-656-5956; Fax: 864-656-5973; ellison@clemson.edu

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RESEARCH SCIENTIST
Monsanto Company
St. Louis, Missouri

Monsanto, a leading global provider of agricultural products that improve farm productivity and food quality, is seeking a talented research scientist to join our catalyst R&D team to lead the characterization of catalysts. Responsibilities include performing hands-on characterization of catalysts using a variety of spectroscopic techniques, and designing and conducting experiments to develop new analytical technologies for catalyst characterization. The candidate should also possess the ability to make insightful links between catalyst structure and performance and effectively communicate those findings to guide further development efforts. The individual will work in a dynamic, team-based environment with others in R&D, engineering and manufacturing, as well as collaborate with scientists in other organizations.

A PhD degree in chemistry, materials science, or a related field with at least five years experience in catalytic materials characterization is required. The candidate should possess catalyst characterization experience with hands-on expertise in various microscopic techniques, with an emphasis on SEM and TEM. An understanding of chemisorption, physisorption, and surface volume measurements as applied to catalysts is desirable. Strong written and oral communication skills are required, as well as the ability to work independently and drive collaborative projects forward.

For consideration, please apply online at www.monsanto.com and refer to requisition number: mons-00006047.

POSTDOCTORAL POSITIONS
IN NANO-MATERIALS
Los Alamos National Laboratory

The Materials Physics and Applications Division at Los Alamos National Laboratory is seeking postdoctoral candidates interested in 1) synthesizing carbon nanotubes using CVD methods, 2) deposition of catalyst thin films for nanotube growth, 3) carbon nanotube-polymer composites, 4) characterization of nano-materials and nano-structures using HRTEM, Raman, AFM, etc., and 5) deformation physics and mechanical properties of nanostructured metals and alloys. Candidates are expected to publish the results of their basic research in the open literature and present it at relevant conferences. US citizenship is not required.

A PhD degree in Materials Science, Chemistry, Physics, or related fields completed within the last five years or soon to be completed is required.

To apply, send your vita to Dr. Y.T. Zhu at yzhu@lanl.gov referencing Job# 213977 in the subject line.

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