

## Positions Available

**COLLEGE OF ENGINEERING  
ALFAISAL UNIVERSITY**  
Riyadh, Saudi Arabia

**Alfaisal University** is a private, not-for-profit, research university, comprised of the Colleges of Engineering, Science and General Studies, Medicine, and Business, and will commence its programs in Fall 2008. The language of instruction is English and modern learning outcomes, paradigms, and technologies are used. The university was founded by King Faisal Foundation along with organizations such as Boeing, British Aerospace, Thales, and King Faisal Specialist Hospital & Research Center, which serve on its Board of Trustees.

The College of Engineering will offer undergraduate and graduate programs in the following disciplines and areas:

**ELECTRICAL** (power, communications, signal processing, electronics, photonics, remote sensing and geodata analysis), **COMPUTER** (intelligent systems, language and speech, computer systems, computation),

**MECHANICAL** (applied mechanics, thermo/fluid engineering, product creation),

**AEROSPACE** (propulsion, aerospace systems, transportation, system dynamics and control), **MATERIALS** (materials processing, materials properties and performance, polymers, nanoscience and technology),

**CHEMICAL** (catalysis, reactor design, separations, design-systems). All programs have been developed by renowned scholars from leading universities in the US and the UK, and are designed to be qualified for accreditation according to US and UK standards and requirements.

**Alfaisal Engineering seeks candidates** for the following positions, commencing in August 2008: **FOUNDING SENIOR FACULTY** (with research, instructional, and administrative responsibilities), **RESEARCH SCIENTISTS** (academics with research focus), **LECTURERS** (academics with instructional focus), **POST-DOCS** (Doctoral degree holders with research focus), **INSTRUCTORS** (Master's degree holders with instructional focus), and **ENGINEERS** (Bachelor's degree holders). Attractive salary and start-up support is provided.

Queries and applications should be sent to [engnr\\_recruiting@alfaisal.edu](mailto:engnr_recruiting@alfaisal.edu). The subject line should specify the discipline, area, position, and the announcement reference. The deadline for applications is **31 December 2007**. Interviews for leading positions will be conducted in January and February 2008 in Cambridge, MA, USA, and Cambridge, England, UK.

**Chair**
**CHEMICAL ENGINEERING  
UNIVERSITY OF MICHIGAN, ANN ARBOR**


The Department of Chemical Engineering at the University of Michigan seeks applicants and nominations for the position of Department Chair. The department currently has 19 full-time faculty members with 3 members in the National Academy of Engineering and boasts world-class research in Complex Fluids and Nanostructured Materials; Energy and Environment; and Life Sciences and Biotechnology. The qualified candidate will be an outstanding scholar with a doctorate in Chemical Engineering or a related field and an exemplary record of achievement in research, teaching and service at a level commensurate with the appointment. She or he must also possess outstanding leadership skills, administrative capabilities and a bold vision for the field of chemical engineering in the 21st century. The candidate should have strong abilities in promoting sponsored research programs, catalyzing new initiatives, leveraging the multidisciplinary educational and research culture of the university and interacting with government, industry and professional societies. The candidate should be able to work with a diverse group of faculty, staff, students and administrators to achieve common goals and to maintain rapport with alumni and industry representatives. The position will be available as early as July 2008 and salary will be commensurate with qualifications. Consideration of candidates will begin immediately and will continue until the position is filled. Applications or nominations should include a cover letter and a CV and be addressed to Professor Johannes Schwank, Chair, ChE Chair Search Committee, Department of Chemical Engineering, 3074 H. H. Dow Building, 2300 Hayward Street, University of Michigan, Ann Arbor, MI 48109-2136, email: [schwank@umich.edu](mailto:schwank@umich.edu), phone: 734-764-3374.

The College of Engineering is dedicated to the goal of building a culturally diverse and pluralistic faculty committed to teaching and working in a multicultural environment and is responsive to the needs of dual career partners.

*The University of Michigan is a Non-Discriminatory, Affirmative Action Employer.*



ÉCOLE POLYTECHNIQUE  
FÉDÉRALE DE LAUSANNE

**Faculty Position in Materials Science  
at Ecole Polytechnique Fédérale  
de Lausanne (EPFL)**

The School of Engineering of EPFL invites applications for a faculty position in its Institute of Materials to begin during the calendar year 2008. The opening is for a position at the **tenure track assistant professor** level, however, exceptional candidacies at the full or associate professor level may also be considered. We seek outstanding individuals who will develop and drive a research program at the forefront of the discipline, as well as contribute to curriculum development and teaching in the Bachelor, Master and Doctoral academic programs.

Top-level applicants in all areas of Materials Science and Engineering will be considered; areas of interest include, but are not limited to, organic and soft materials, bio-related materials, functional films and surfaces, device materials, atomistic and first-principles materials modelling.

Start-up resources and state-of-the-art research infrastructure will be available. Salaries and benefits are internationally competitive.

Applications should be submitted via the web site <http://imx-search.epfl.ch> and should include the following documents in PDF format: curriculum vitae, publication list, brief statement of research and teaching interests, names and addresses (including e-mail) of 6 references. Deadline for applications: **15 February 2008**.

Further questions can be addressed to:

**Professor Andreas Mortensen, Director  
Institute of Materials, EPFL - STI  
MXF 110 (Bâtiment MXF), Station 12  
CH-1015 Lausanne / Switzerland  
E-mail: [hiring.imx@epfl.ch](mailto: hiring.imx@epfl.ch)**

For additional information on EPFL, please consult the web sites <http://www.epfl.ch>, <http://sti.epfl.ch> and <http://imx.epfl.ch>

EPFL aims for a very strong presence of women amongst its faculty, and qualified female candidates are strongly encouraged to apply.

## Positions Available


**MATERIALS FOR ENERGY FACULTY OPENING**  
**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 and should have outstanding potential for establishing an independent research and teaching program focusing on materials for energy science and technology with connections to energy supply or demand, energy conversion or transformation, or the environmental impacts of energy.

We are especially interested in a person who would collaborate effectively with materials science faculty and students engaged in 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; 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 2008; applications should be submitted by **March 1, 2008**, to:

Professor Reinhold H. Dauskardt, Chair, Search Committee  
 Department of Materials Science and Engineering  
 Stanford University, Stanford, CA 94305-2205  
 Phone: 650-725-0679; Fax: 650-725-4034; E-mail: [dauskardt@stanford.edu](mailto:dauskardt@stanford.edu)

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

**TENURE-TRACK FACULTY POSITION (OPEN RANK)**  
**Photonic, Solar Energy Conversion, Optical Materials**  
**Western Washington University**

The Advanced Materials Science and Engineering Center (AMSEC) of Western Washington University invites applications for a tenure-track faculty position (open rank) in the general field of optical materials science, including solar energy conversion materials, optical devices, or photonic materials, starting September 2008. AMSEC is a new \$1.2 million interdisciplinary research and education center, which includes faculty from Physics, Chemistry, Engineering Technology, and Geology. The new position will span two departments, depending upon the candidate's specialty discipline, with a 2/3 appointment in the primary discipline, and 1/3 appointment in a secondary discipline. Candidate's responsibilities include establishing a vigorous, externally-funded research program involving undergraduate students.

Applicants must hold a PhD degree in a materials-related field. Candidates actively engaged in research, with a strong publication record commensurate with experience, and with post-doctoral research experience and/or industrial research experience are strongly preferred. Applicants should submit 1) a detailed cover letter describing their background; 2) a statement of research plans; and 3) a full CV including the names, addresses, e-mail addresses, and telephone numbers of three professional references. (Do not send recommendation letters; they will be requested only for semifinalists.) Review of applications begins on **February 10, 2008** and continues until the position is filled. All application materials and inquiries should be addressed to: Dr. Brad Johnson, Chair, AMSEC Search Committee, Dept. of Physics, Western Washington University, Bellingham, WA 98225-9164; E-mail: [bjohnso@physics.wvu.edu](mailto:bjohnso@physics.wvu.edu). The AMSEC Web site is <http://amsec.wvu.edu>.

*WWU is an AA/EOE employer.*

**ASSISTANT PROFESSOR**  
**Department of Metallurgical**  
**and Materials Engineering**  
**Middle East Technical**  
**University, Turkey**

The Department of Metallurgical and Materials Engineering of the Middle East Technical University invites applications for tenure-track positions at the Assistant Professor level, however, exceptional candidates at higher levels may also apply. Candidates at the Assistant Professor level would normally have a PhD degree in related discipline and preferably postdoctoral experience.

The Department and the University provide strong research support with access to some of the most extensive and modern facilities. The research areas of the Department are centered on three broad platforms of materials engineering, ceramic materials, and production metallurgy.

Applications are welcome from all areas of materials science and engineering, experimental or theoretical, with preference for the following areas:

- Polymeric Materials and Polymer Processing
- Production Metallurgy
- Electronic Materials and Devices
- Bio-Nano Materials

The candidates must possess a distinguished record of research accomplishments and publications, and a demonstrated ability to mentor graduate students and develop an innovative research and educational program. Successful candidates will be expected to attract external funding and build a strong sponsored-research program, lead independent research at the cutting edge of their field, and teach undergraduate and graduate courses in materials science and engineering.

All applications should be submitted electronically as a single PDF document to [mete@metu.edu.tr](mailto:mete@metu.edu.tr). Electronic applications should include: 1) a current vitae, 2) a concise statement (not to exceed three pages total) of research and teaching interests and philosophy; and 3) names and addresses of three references, addressed to:

Chair, Metallurgical and Materials  
 Engineering Department  
 Middle East Technical University  
 Ankara 06531 Turkey

The search committee will begin reviewing applications on **January 15, 2008**. For further or follow-up information, please link to <http://www.mete.edu.tr/announcements/facultysearch.htm>.

**Positions Available**

**FACULTY POSITION  
Mechanical Engineering  
Binghamton University (SUNY)**

The Department of Mechanical Engineering at Binghamton University (one of the SUNY University Centers) in Binghamton, NY, invites applications for a tenure-track faculty position in the area of heat/mass transport in small scale systems for the fall of 2008. The level of appointment and tenure status will be consistent with the professional experience and qualifications of the appointee. Candidates must have a PhD degree in Mechanical Engineering or a related field with specialization in transport phenomena. The successful candidate will have demonstrated research expertise in one or more of the following areas: transport phenomena in micro-/nano-fluidic devices, fluid/surface energetics/modification multi-scale transport phenomena, complex fluids, or organic electronics. The applicant should have demonstrated potential for sustainable funding in one of the above areas and be able to teach at both undergraduate and graduate levels in mechanical engineering and applied sciences.

Applicants must send current curriculum vitae, brief statements of research and teaching interests, and the names, addresses, e-mail, and telephone numbers of at least three referees. Applications received by **February 15, 2008** will receive full consideration, but the search will remain open until an appointment has been made. Contact:

Bahgat Sammakia  
Chair of the Search Committee  
Professor, Mechanical Engineering  
Director, The Small Scale Systems  
Integration and Packaging  
Center, S3IP  
A New York State Center of Excellence  
Binghamton University, P.O. Box 6000  
Binghamton, NY 13902-6000  
Tel: 607-777-6880; Fax: 607-777-4683  
Email: bahgat@binghamton.edu  
<http://S3IP.binghamton.edu>

*Binghamton University is an Equal Opportunity/  
Affirmative Action Employer.*

**POSTDOCTORAL POSITIONS  
Colorado State University**

Applications are invited for postdoctoral positions available in the Materials Engineering Lab at Colorado State University to conduct R&D on CdTe Photovoltaic Technology. A PhD degree in engineering or applied science with an emphasis on CdTe PV or equivalent experience is required. Also, applications for postdoctoral positions in the broad area of solid state materials chemistry are invited. Apply with CV and two recommendation letters to [mani@engr.colostate.edu](mailto:mani@engr.colostate.edu).

*Equal Opportunity/Affirmative Action Employer*



**Dean of Engineering**

The University of Delaware invites nominations and applications for the position of Dean of the College of Engineering. The Dean provides academic leadership for over 100 faculty in five departments that enroll approximately 1300 undergraduate and 500 graduate students. The College of Engineering is home to a wide range of disciplines that support world-class programs and to eight research centers; a multidisciplinary perspective is fostered and is of continued interest to the college. External funding through contracts and grants exceeds \$45 million in the college. Reporting directly to the Provost, the Dean occupies a key role in the life of the University and must function effectively as part of the central administrative team, including active participation in University development activities.

The Dean should possess an outstanding academic record consistent with a senior faculty appointment, have experience in recruiting and retaining faculty of excellence, and be able to manage a complex academic enterprise. The Dean must provide vision for the college and foster both vigorous research programs and excellent undergraduate and graduate education across the breadth of disciplines within the college. An ability to develop innovative academic programs and to promote the college's interests with internal and external constituencies within the state and at the national level is important for the position. The Dean must be committed to interdisciplinary and multicultural education and have a record of promoting diversity.

With the most beautiful campus on the East Coast, the University of Delaware is a community of 15,849 undergraduate and 3,446 graduate students ([www.udel.edu](http://www.udel.edu)). It has 126 undergraduate majors, 82 master's programs and 39 doctoral programs. The University has a commitment to teaching excellence and innovation. UD is a research-extensive institution that has land grant, sea grant, urban grant and space grant status. External funding at the University exceeds \$150 million.

Review of applications will begin on November 1, and will continue until the position is filled. The Dean will assume office on July 1, 2008. Nominations and expressions of interest will be held in confidence. Candidates should submit a letter of interest, a detailed resume, and the names and addresses of four references to Dean Tom Apple, Chair, Engineering Search Committee, 4 Kent Way, University of Delaware, Newark, DE 19716; or by email to [engsearch@artsci.udel.edu](mailto:engsearch@artsci.udel.edu). For more information about the college, please visit the college's web site at [www.engr.udel.edu](http://www.engr.udel.edu).

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

**FACULTY POSITIONS  
UNIVERSITY OF MICHIGAN  
MATERIALS SCIENCE  
AND ENGINEERING**



The University of Michigan Department of Materials Science and Engineering, College of Engineering, has openings for both tenured and tenure-track faculty positions. Applicants must have a Ph.D. degree, be qualified to teach undergraduate and graduate courses in Materials Science and Engineering and are expected to develop independent and cooperative research programs. A demonstrated research record or potential is required. The preferred areas of expertise include materials for energy conversion and storage as well as photonic and phononic materials, although outstanding candidates are welcomed in all areas. We seek candidates who will provide inspiration and leadership in research and contribute actively to teaching, and 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:**  
**Prof. David C. Martin, Chairman, Search Committee**  
**Department of Materials Science and Engineering**  
**The University of Michigan**  
**2300 Hayward Street**  
**Ann Arbor, MI 48109-2136**

*An affirmative action, equal opportunity employer.  
The University of Michigan is a dual career-friendly institution.*

## Positions Available



### FACULTY POSITIONS Nanotechnology Engineering University of Waterloo

The Departments of Chemistry, Chemical Engineering, and Electrical & Computer Engineering at the University of Waterloo invite applications for several positions at the Assistant, Associate, and Full Professor levels. The positions are part of the University's expansion in Nanotechnology Engineering (NE), which includes a new undergraduate degree program in NE (<http://www.nanotech.uwaterloo.ca>). The initiative is a cross-disciplinary partnership between the three departments which are home to more than 140 faculty members and 600 graduate students.

Applications are invited from excellent candidates in the fields of nanoscience and nanotechnology with emphasis in the areas of nanoelectronics (e.g., quantum structures, molecular electronics); micro/nano instruments (e.g., nanoscale spectrometry, fluidics); nanobiosystems (e.g., nanomedicine, biomaterials); and nanomaterials (e.g., nanocrystals, nano-engineered membranes). The successful candidates are expected to establish world-class, independent, externally-funded research programs in a research-intensive cross-disciplinary environment. The departments involved in the creation of the NE program are already home to state-of-the-art characterization, analysis, and synthesis research facilities including cleanroom laboratories for nanoscale structures and devices. Excellent research and teaching lab facilities are being established across the university, including a new building complex with lab clusters for nanotech research.

The candidates are also expected to develop and teach a broad range of innovative undergraduate and graduate courses in nanoscience and nanotechnology. Interested candidates should forward their curriculum vitae, the names of four referees, a short description of research accomplishments, a teaching statement, and a research statement. They may also indicate the department they wish to be affiliated with. The positions will remain open until they are filled. Applications should be sent to:

Faculty Hiring Coordinating Officer  
Nanotechnology Engineering Program  
University of Waterloo; 200 University Avenue West  
Waterloo, Ontario N2L 3G1, Canada  
E-mail: [nefacultyhiring@nanotech.uwaterloo.ca](mailto:nefacultyhiring@nanotech.uwaterloo.ca)  
(electronic submissions welcomed)

With a student population of 22,000 and six faculties, the University of Waterloo has been rated as the most innovative university in Canada for the 13th year in a row. Located about 100 km from metropolitan Toronto, the University of Waterloo is in the Region of Waterloo with a population of 500,000. The area is in the heart of Canada's technology triangle and enjoys one of the fastest growths in Canada. All qualified applicants are encouraged to apply; however, Canadian Citizens and permanent residents will be given priority. The University encourages applications from all qualified individuals, including women, members of visible minorities, native peoples, and persons with disabilities. Candidates are expected to become eligible for Professional Engineering registration in Ontario.

### FACULTY POSITIONS Department of Chemical and Materials Engineering National Central University, Taiwan

The Department of Chemical and Materials Engineering invites applicants for tenure-track positions at Assistant, Associate, or Full Professor ranks. The department seeks outstanding candidates who have a PhD degree in Chemical Engineering, Materials Engineering, or related fields. Preferred research areas include Heterogeneous Catalysis, Advanced Energy Systems, Electronic, Optical, and Bio-Materials, or Hybrid Nano-materials. Successful candidates will be expected to teach undergraduate and graduate courses as well as to develop excellent research program. The Chemical and Materials Engineering department has 22 faculty, an enrollment of over 200 undergraduates, about 150 graduate students, and the approximate equivalent of US\$2M in annual sponsored research. Information regarding the Department is available on the website at [www.ncu.edu.tw/~che](http://www.ncu.edu.tw/~che).

Candidates should send a resume, description of future teaching and research plans, previous research accomplishments, and names of three references to the Department of Chemical and Materials Engineering, National Central University, Chung-Li, Taiwan 32054; Email: [ywchen@cc.ncu.edu.tw](mailto:ywchen@cc.ncu.edu.tw).



### ASSISTANT PROFESSOR/ASSOCIATE PROFESSOR 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 (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 area includes, but not limited to, electronic materials, nanomaterials, materials for bio-medical applications, and materials for energy harvesting and conversion. Outstanding candidates with research specializations in other materials area 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 nine faculty members and approximately 70 graduate students. Additional research facilities exist at the NanoFab Teaching and Research Facility ([www.nanofab.uta.edu](http://www.nanofab.uta.edu)). Ample opportunities in an interdisciplinary environment also exist at ARRI (Automation and Robotics Research Institute, [www.arri.uta.edu](http://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.*

Positions Available

TENURE-TRACK AND TENURED POSITIONS  
 Department of Mechanical Engineering and Materials Science  
**THE UNIVERSITY OF PITTSBURGH**



The Department of Mechanical Engineering and Materials Science at the University of Pittsburgh invites applications for several tenure-track and tenured positions as part of a major faculty expansion that started in 2006. Successful applicants should have the ability to build an externally funded research program that contributes to the existing strengths of our program while enhancing areas targeted for future growth. We are seeking applicants from all areas of materials science and mechanical engineering, including energy generation, energy storage (batteries, fuel cells, supercapacitors), computational materials science, active nanomaterials and biomaterials for tissue engineering, protein, gene, and drug delivery. Candidates with the following research interests are particularly encouraged to apply:

- **nanotechnology and nanomanufacturing**, including device and/or system fabrication as well as property modeling and measurements
- **design/manufacturing**, including advanced manufacturing process and systems such as materials and solid mechanics, design, thermal science, and instrumentation/sensors related to manufacturing
- **sustainability**, including sustainable energy, design for sustainability, renewable (bio) systems, green engineering, and water treatment.

Applicants should have a PhD degree in Materials Science, Mechanical Engineering, or a related field, and a demonstrated record of excellence in teaching and research.

The Department of Mechanical Engineering and Materials Science, recently formed by a merger of the departments of Materials Science and Engineering and Mechanical Engineering at the University of Pittsburgh, has 29 tenured or tenure-track faculty members who generate nearly \$6 million in annual research expenditures. The School of Engineering is planning substantial investments in this new department in the coming years for faculty and infrastructure to support a dynamic and interdisciplinary center of excellence in teaching and research. Current research thrusts include high temperature materials, computational mechanics and fluid dynamics, material characterization at multiple length scales, energy technologies, structural materials, functional nano, micro/biofluidics, advanced ceramics, smart structures, and biomechanics.

The Department of Mechanical Engineering and Materials Science has excellent facilities in the areas of structural and analytical characterization, thermofluid imaging, microsensors and actuators, property measurement, computational transport phenomena, materials processing, and the mechanics of active materials, among others. The Department also has multiple laboratories that are part of the collaborative Swanson Center for Micro and Nano Systems, and numerous Mechanical Engineering and Materials Science faculty are contributing members of the Petersen Institute of NanoScience and Engineering (<http://www.nano.pitt.edu>), which recently opened the Nanoscale Fabrication and Characterization Facility that houses state-of-the-art TEM/STEM, Dual Beam FIB, dedicated E-beam Lithography, FTIR, SPM, XRD, UV-Vis-IR spectrophotometer, and clean-room facilities. The University of Pittsburgh is ranked second in the nation for microscale and nanoscale research (*Small Times* 6(3), 2006) and 37th in the world's top 100 global universities by *Newsweek International*. The city of Pittsburgh has also evolved into a hub for innovative high-tech development and research, with thousands of technology companies now contributing to the region.

Qualified applicants should send their curriculum vitae, a statement of their research interests and teaching philosophy, and the names and addresses of at least three references to:

Chair, Faculty Search Committee  
 Department of Mechanical Engineering  
 and Materials Science  
 648 Benedum Hall  
 School of Engineering  
**University of Pittsburgh**  
 Pittsburgh, PA 15261

Materials can also be submitted electronically to [Pitt\\_mems\\_search@engr.pitt.edu](mailto:Pitt_mems_search@engr.pitt.edu). Review of applications will begin on **December 15, 2007**, and will continue until the positions are filled.

*The University of Pittsburgh is an equal opportunity/affirmative action employer. Women and minorities are strongly encouraged to apply.*



[Pitt\\_mems\\_search@engr.pitt.edu](mailto:Pitt_mems_search@engr.pitt.edu)

**Positions Available**

**ASSOCIATE DIRECTOR FOR OPERATIONS**

**Yale Institute for Nanoscience and Quantum Engineering  
Yale University**

The Yale Institute for Nanoscience and Quantum Engineering (YINQE) is a newly established multidisciplinary enterprise involving over 50 faculty from engineering, physical, and life sciences departments at Yale. We seek an Associate Director for Operations who will serve as the key person in the initial establishment of and subsequent daily operations of the Institute. The Associate Director for Operations will report to the Institute Director and Provost and will oversee the financial, facility, and human resource activities of the Institute as well as be responsible for developing and executing a strategic plan for fundraising and development activities, working with Yale Development staff. The Operations Director will work closely with the participating faculty and will coordinate support of YINQE activities with Yale's NSF Materials Research Science and Engineering Center.

The successful candidate will have a PhD degree in the engineering, physical, or life sciences. At least five years related experience is required, including experience in research project management, grant writing, and personnel supervision. Excellent written and verbal communication skills are essential.

A curriculum vitae and three letters of recommendation should be sent to [jean.edmunds@yale.edu](mailto:jean.edmunds@yale.edu) or to Ms. Jean Edmunds, Faculty of Engineering, Yale University, PO Box 208267, New Haven, CT 06520-8267, Attn: YINQE Search Committee. The recommendation letters should be sent under separate cover directly by their authors. Application materials will be accepted until the position is filled.

*Yale University is an affirmative/equal opportunity employer and encourages applications from qualified women and minority group members.*



Gwangju Institute of  
Science and Technology

**FACULTY POSITIONS**

**Department of Materials Science and Engineering  
Gwangju Institute of Science and Technology (GIST)  
Korea**

The Department of Materials Science and Engineering invites applications for faculty positions in all levels starting from February or August 2008. Applications from candidates with experience in printable electronics, polymer-based sensors and actuators, semiconductor materials and devices, photonic materials and devices, and nanoscale electronic materials and devices are encouraged but all areas of materials science and engineering will also be considered. A PhD degree in Materials Science, Chemistry, Physics, Chemical Engineering, or an interdisciplinary subject is required. Postdoctoral experience is desirable. The successful candidates must have an outstanding research record and show promise of teaching effectively in English at the graduate level. Information on the GIST and the Department of Materials Science and Engineering may be found at <http://www.gist.ac.kr>. There is no deadline for receipt of application materials which are reviewed four times every year.

A letter of interest, statement of research plan, CV, and publication list should be sent to the department chairman, Prof. Tae-Ho Yoon, via e-mail at [thyoon@gist.ac.kr](mailto:thyoon@gist.ac.kr), and three recommendation letters must also be arranged to be sent directly to:

Prof. Tae-Ho Yoon  
Department of Materials Science and Engineering  
Gwangju Institute of Science and Technology  
261 Cheomdan-gwagi-ro (Oryong-dong)  
Buk-gu, Gwangju 500-712, Republic of Korea

*Foreigners and women scholars, especially, are welcome to apply for the positions. Korean citizenship is not required.*

**DEAN OF THE PRATT SCHOOL OF ENGINEERING  
DUKE UNIVERSITY**

Duke University invites applications and nominations for the position of Dean of the Pratt School of Engineering. The Pratt School of Engineering has achieved unprecedented growth in the last decade, and is poised to further strengthen its position as a leading educational and research center, committed to academic excellence, and to scientific and technological entrepreneurship and innovation. The university seeks an intellectual leader and visionary administrator who will be a strong and effective advocate for the teaching and research mission of the school, a mentor for faculty, students, and staff, and a charismatic ambassador to and for the Pratt School of Engineering's national and international constituencies, including, but not limited to alumni, friends of the Pratt School of Engineering, the international scientific community, and the senior leadership team of Duke University.

The Pratt School of Engineering's academic programs are structured around four departments and one major non-departmental educational program: the Department of Biomedical Engineering; the Department of Civil and Environmental Engineering; the Department of Electrical and Computer Engineering; the Department of Mechanical Engineering and Materials Science; and the Master of Engineering Management program.

As the chief academic and administrative officer for the School, the Dean reports to the Provost. He/she is responsible for providing oversight and leadership for **Strategic Planning** for the School, the identification and implementation of a long-range vision, and the delimitation of specific strategies, and detailed administrative and fiscal provisions to ensure the continued excellence of the Engineering School faculty and its teaching and research programs. The Dean oversees all matters of **Academic Personnel**, including the recruitment, retention, appointment, reappointment, mentoring, and promotion and tenure of faculty. The Dean is also responsible for ensuring that the university's objectives, with respect to the quality and diversity of the faculty, are embraced and met. The Dean is responsible for providing **Budgetary and Administrative Oversight** for all aspects of the Engineering School's budget, consistent with the university's responsibility center management budget system; and for **Stewardship and Development** of initiatives and relationships with the Pratt School of Engineering. The Dean serves as the university's designated representative to key constituents, including, but not limited to various national and international constituents, national and international associations, alumni, special friends, and the Pratt Board of Visitors. The Dean provides leadership and oversight for government-industry partnerships, multi-university partnerships, industry outreach, and technology transfer. Finally, the Dean is responsible for managing the School's interactions with major national corporations and with the local high technology industry in the Research Triangle Park, and for advancing the transfer of technology and other intellectual property developed in the School for purposes of the betterment of society and the development of commercial products.

Qualified applicants and nominees amenable to exploring this exciting leadership opportunity should forward an electronic version of their curriculum vitae (using Microsoft Word or PDF files as attachments), and an optional letter of interest to: **Dr. Ilene H. Nagel, Consultant to the Search Committee, Leader, Higher Education Practice, Russell Reynolds Associates, Inc., Ph: 805-699-3020 (PST). Email: [duke-pratt@russellreynolds.com](mailto:duke-pratt@russellreynolds.com)**



**DUKE UNIVERSITY**

*Duke University is an equal opportunity/affirmative action employer.*

## Positions Available

### ASSISTANT PROFESSOR POSITION 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 energy and/or energy systems engineering including renewable, alternative, and sustainable energy technologies. Candidates must possess a PhD degree in mechanical, chemical, materials engineering, or a related field, with a strong experimental and/or theoretical/computational expertise, background in materials science and engineering, a desire to build a world-class research and education program in their areas of specialization, and have a vision of how to build a program in this area. Special areas of interest include materials for energy conversion and storage technologies including solar energy, high energy density batteries, supercapacitors, thermoelectrics, fuel cells, hydrogen production and storage, and national and international energy policies. 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 Dr. Sheldon Landsberger, Energy Search Committee Chair at s.landsberger@mail.utexas.edu. Evaluation of applications will begin **December 15, 2007**, and applications should be received by January 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](http://www.me.utexas.edu). The successful candidate will be required to complete an Employment Eligibility Verification form and provide documents to verify identity and eligibility to work in the U.S. This is a security sensitive position; a background check will be conducted on the applicants selected.

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

### TENURE-TRACK FACULTY POSITIONS Department of Materials Science and Engineering Pohang University of Science and Technology (POSTECH) Korea (South)

The Department of Materials Science and Engineering (<http://www.postech.ac.kr/mse>) at POSTECH (<http://www.postech.ac.kr>) invites applications for three or four tenure-track positions at the Assistant or Associate Professor level in the Department's strategic research areas of structural materials, electronic materials, biomaterials, nanomaterials, and materials for sustainable energy. However, applications are also welcome in other areas of materials research such as computational materials science and characterization.

Applicants must have a doctoral degree in materials science and engineering or a related discipline with an outstanding research record. The successful candidate must be able to teach undergraduate level courses in the areas of materials science and engineering, and should have a strong interest in developing new and innovative graduate courses in related areas. It is important for the applicant to demonstrate motivation and an ability to develop research programs in collaboration with other faculty members and serve the academic/research community.

Interested persons should apply by **January 15, 2008** with a resume together with a recent photograph, three letters of reference, a statement outlining research and teaching goals, and other supporting materials.

All materials should be sent to:

Mr. Doo Han Moon, Administrative Assistant  
Department of Materials Science and Engineering  
Pohang University of Science and Technology (POSTECH)  
San 31, Hyoja-Dong, Pohang, 790-784, Korea

Electronic submissions are preferred. E-mail to [mse-postech@postech.ac.kr](mailto:mse-postech@postech.ac.kr).

## MichiganTech

### TENURE-TRACK FACULTY POSITIONS Materials Science and Engineering Michigan Technological University

The Department of Materials Science and Engineering at Michigan Technological University invites applications for tenure-track faculty positions. Outstanding candidates in all areas of Materials Science and Engineering will be considered for multiple openings at the rank of Assistant, Associate, or Full Professor. Successful applicants will have developed a strong research program or demonstrated their potential to develop a strong research program through their post-graduate experience. They will hold a doctoral degree or equivalent, be committed to excellence in scholarship, and enjoy inspiring graduate and undergraduate students to learn and discover.

Michigan Technological University is located in Houghton, a small community in the Keweenaw Peninsula of Lake Superior. The University enrolls approximately 6000 students, 4000 of whom are in the College of Engineering. The nationally ranked Department of Materials Science and Engineering is comprised of a growing faculty that currently has twelve members, approximately 100 undergraduates, 30 graduate students, and five members of the technical staff. The Department maintains outstanding laboratory facilities for both research and instruction.

Applicants should send a resume and a description of research interests, along with names and addresses for three professional references to:

Tenure-Track Professor Applications  
Faculty Search Committee Chair  
Department of Materials Science and Engineering  
Michigan Technological University  
1400 Townsend Drive, Houghton, MI 49931

Applications will be considered until the positions are filled.

*Michigan Technological University is an Equal Opportunity Educational Institution/Equal Opportunity Employer and strongly encourages applications from women and minorities.*



TOHOKU  
UNIVERSITY

### POSTDOCTORAL POSITIONS Electrode Materials for Advanced Devices Department of Materials Science Tohoku University, Japan

Two postdoctoral positions are available for the development of high performance and reliable electrode materials in the applications of advanced power devices and flat panel displays. Experiments to be performed are thin film deposition, x-ray diffraction, transmission electron microscopy, focused ion beam sample preparation, spectroscopy analysis, lithography, and electric measurement. Candidates having experience in some of these fields are preferred.

Salary is approximately 5M JPY per year. Term is for two years with possible extension of one more year. Send CV, relevant publications, and names of three references to Prof. Junichi Koike, Department of Materials Science, Tohoku University, 6-6-11 Aoba, Aramaki, Aoba-ku, Sendai 980-8579, Japan; TEL/FAX: +81-22-795-7360; [koikej@material.tohoku.ac.jp](mailto:koikej@material.tohoku.ac.jp).

## Positions Available

## TEACHING FELLOWS/ASSISTANT PROFESSORS/ ASSOCIATE PROFESSORS/PROFESSORS

School of Materials Science & Engineering  
NANYANG TECHNOLOGICAL UNIVERSITY



*To be a great global university founded on science and technology.  
To nurture creative and entrepreneurial leaders through a broad education in diverse disciplines.*

### 1. VACANCIES IN FACULTY APPOINTMENTS

The School of Materials Science and Engineering (<http://www.mse.ntu.edu.sg/>) is the largest materials science and engineering institution in Singapore, comprising a strong team of 130 staff members and more than 1200 students. The School is sited on its own 6-storey building and has other extensive facilities within the university ground.

The School has major funded research programs and is actively seeking full-time tenure-track faculty members in the following areas:

#### A. Nanoporous/Mesoporous Structures & Characterization

We are seeking outstanding young scientists with some years of postdoctoral experience to work in the area of nano-/mesoporous synthesis and characterization. The successful candidate will be formally trained as a chemist or materials scientist with a demonstrable record in solid state synthesis. Applicants must possess a PhD degree. Innovative and creative individuals who are able to develop an independent research program supported in part by external funding will be preferred.

Proven teaching and training experience at university level would be a strong advantage. Specialization in one or more of the characterization tools available in the School is essential. Experience in the operation and maintenance of electron microscopes, surface analytical equipment, or synchrotron beam lines is required.

#### B. Clean Energy/Ecological Materials

We are recruiting outstanding candidates working towards new and innovative materials for the next generation of clean energy technologies that could include organic and inorganic materials for solar cells, fuel cells, thermo electric materials, catalysis, energy, and gas storage amongst others. Individuals who have a strong inclination towards original materials synthesis, functionalization, nanofabrication, or characterization would be preferred.

The candidate is expected to hold a PhD degree. Postdoctoral experience in the related fields of expertise is preferred. The successful candidate is expected to form and lead his/her own dynamic research team, participate in relevant collaborative research, and be a proficient educator in the school's graduate and undergraduate programs.

#### C. Biomimetics/Novel Biomaterials

We are seeking highly qualified candidates with some years of postdoctoral experience to work in the area of structure-property

relationships in biological materials or structures, particularly of bio-organic structural materials. In particular, a background in the study of the following areas is preferred:

- structure of collagen, elastin, polysaccharides, and their combinations in various tissues;
- structure of blood vessels, bone, and other tissue;
- development of new materials to mimic function of body tissue such as blood vessels, pancreas, blood

Candidates with background in other areas of biomimetics, including inorganic structures, are also welcome to apply. Individuals who are working in the area of artificial proteins will also be considered.

A PhD degree in Materials Science & Engineering, Chemical/Biomolecular Engineering, or Chemistry is required. Postdoctoral experience is desirable but not essential. A strong publication record is also required.

#### D. Nuclear Materials/Metallurgy/Ceramics

We are inviting applications for faculty appointments in the areas of Nuclear Materials, towards new and innovative materials for next generation of nuclear technologies; Metallurgy, such as light metals and super-alloys for advanced applications; and Ceramic Materials, for both functional and structural applications.

Candidates must possess a PhD degree, preferably with postdoctoral experience in the relevant areas. The successful candidate is expected to work in a dynamic research environment, conduct undergraduate/graduate teaching, provide student supervision, initiate applied research, and collaborate extensively with local/overseas research institutions.

### 2. EMOLUMENTS AND GENERAL TERMS & CONDITIONS OF SERVICE

The commencing salary will depend on the candidate's qualifications, experience, and the level of appointment offered. Information on emoluments and general terms and conditions of service is available in the section on Terms and Conditions of Service for Academic Appointments (<http://www.ntu.edu.sg/hr/terms/index.htm>).

### 3. APPLICATION PROCEDURE

Applications must be made on prescribed forms (please link to <http://www.ntu.edu.sg/hr/Applyforms.htm> to download). The post applied for should be clearly stated. Completed application forms may be submitted by normal mail, fax, or email to:

Chair's Office, School of Materials Science and Engineering  
**NANYANG TECHNOLOGICAL UNIVERSITY**  
50 Nanyang Avenue, Block N4.1-02-05, Singapore 639798  
Fax: (65) 6790-0921; E-mail: [d-mse@ntu.edu.sg](mailto:d-mse@ntu.edu.sg)



## Positions Available

**SENIOR RESEARCH SCIENTIST/  
ELECTRON MICROSCOPIST**  
Department of Earth and Planetary Sciences  
University of New Mexico

The Department of Earth and Planetary Sciences at the University of New Mexico (UNM) is seeking to appoint a PhD-level research scientist to manage its transmission electron microscope laboratories. The TEM facility currently comprises a JEOL 2010F FASTEM FEGSTEM and a JEOL 2010 HRTEM and associated sample preparation equipment. A FIB FEGSEM will also be added to the laboratory in Fall 2008. The laboratory is a vigorous multiuser facility that provides electron microscope facilities to a wide range of users from academia, industry, and national laboratories in New Mexico and elsewhere. The laboratory is part of the recently funded NSF National Nanosciences Infrastructure Network (NNIN) established to provide key facilities to support nanoscience and nanotechnology to users across the USA.

Applicants with a PhD degree in the physical sciences with at least two years postdoctoral experience are preferred. We are particularly interested in individuals who have a strong record in the application of transmission electron microscopy to research problems in nanoscience and nanotechnology. The appointment will be at the Senior Research Scientist level. The position will involve management of the operation of the laboratory on a day-to-day basis, support and training of users, instrument maintenance, and instrument development. The appointee will be expected to develop their own research program and will also have the opportunity to develop collaborative research activities. The applicant should have strong interpersonal and oral and written communication skills, and be willing to take on some formal teaching activities at the graduate level.

Further details can be obtained from Professor Adrian Brearley by email at [brearley@unm.edu](mailto:brearley@unm.edu) or by telephone at 505-277-4163, or at [epswww.unm.edu](http://epswww.unm.edu). To apply, go to <https://ejobs.unm.edu/jobHome.cfm>.

*The University of New Mexico is an Equal Opportunity/  
Affirmative Action Employer and Educator.*

**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 open at the Assistant (tenure-track), Associate, or Full Professor levels. The department will consider outstanding candidates in any area of 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 three references with contact information (including email addresses). Submit applications at <https://employment.umn.edu>. Search for requisition number 152025 for Assistant Professor applications and 152031 for Associate/Full Professor Applications. Information on the department is available at [www.cems.umn.edu](http://www.cems.umn.edu). Review of the applications will begin on **January 1, 2008**, and continue until the position is filled. It is hoped that the successful candidate will be in place by Fall 2008.

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

THE STATE UNIVERSITY OF NEW JERSEY  
**RUTGERS**

**POSTDOCTORAL POSITIONS**  
**Biomaterialization, Biomaterials, and**  
**Ceramic Powder Synthesis**  
Rutgers, The State University of New Jersey

The Department of Materials Science and Engineering at Rutgers University is seeking to fill numerous industrial-sponsored postdoctoral positions in biomaterialization, biomaterials, and ceramic powder synthesis. Demonstrated scientific and technical experience in one or more of the following areas, including solution and hydrothermal synthesis, materials characterization, mechanical properties, powder processing, and bioactivity is preferred along with an ability to initiate, conduct and publish cutting-edge research. Candidates demonstrating exceptional research capabilities, collaboration, and project management skills will be considered for a full time research and development position by their corporate research sponsors. The positions, available in January 2008, offer a highly competitive salary and benefits.

Submit curriculum vitae, three letters of reference, relevant publications, and availability date no later than **January 1, 2008**, to Richard E. Riman, Department of MSE, Rutgers, The State University of New Jersey, 607 Taylor Road, Piscataway, NJ 08854-8065; 732-445-4946; [riman@rci.rutgers.edu](mailto:riman@rci.rutgers.edu).

*Rutgers is an equal opportunity/affirmative action employer.*

**MichiganTech**

**RESEARCH PROFESSOR POSITIONS**  
**Materials Science and Engineering**  
Michigan Technological University

The Department of Materials Science and Engineering at Michigan Technological University invites applications for the position of Research Professor. Outstanding candidates in all areas of Materials Science and Engineering will be considered for multiple openings at the rank of Research Professor. Successful applicants will have demonstrated their potential to develop a strong research program. They will hold a doctoral degree or equivalent, be committed to excellence in scholarship, and enjoy inspiring graduate and undergraduate students to learn and discover. These 2-year appointments are intended to give promising individuals the opportunity to develop a research program that will result in favorable consideration for subsequent tenure-track faculty appointments.

Michigan Technological University is located in Houghton, a small community in the Keweenaw Peninsula of Lake Superior. The University enrolls approximately 6000 students, 4000 of whom are in the College of Engineering. The nationally ranked Department of Materials Science and Engineering is comprised of a growing faculty that currently has twelve members, approximately 100 undergraduates, and 30 graduate students. The Department maintains outstanding laboratory facilities for both research and instruction.

Applicants should send a resume and a description of research interests, along with names and addresses for three professional references to:

Research Professor Applications, Faculty Search Committee Chair  
Department of Materials Science and Engineering  
Michigan Technological University  
1400 Townsend Drive, Houghton, MI 49931

Applications will be considered until the positions are filled.

*Michigan Technological University is an Equal Opportunity Educational Institution/Equal Opportunity Employer and strongly encourages applications from women and minorities.*

**Positions Available**

**FACULTY POSITION IN MATERIALS SCIENCE AND ENGINEERING  
Department of Applied Physics and Applied Mathematics  
Fu Foundation School of Engineering and Applied Science  
Columbia University**

The Materials Science and Engineering Program in the Department of Applied Physics and Applied Mathematics at Columbia University announces the availability of a tenure-track faculty position. We are interested primarily in experimentalists and computational materials scientists who work with thin films or nanoscale materials for electronic, optical, magnetic, or other high-technology applications.

The appointment is expected to be made at the level of assistant or associate professor. A doctoral degree in Materials Science and Engineering (or a related science/engineering discipline) is required, and postdoctoral experience is highly valued. Interested persons should send a curriculum vitae, a publication list, a description of research accomplishments, a statement of research interests and plans, and up to three pre/reprints to: Chair, Materials Science and Engineering Search, Columbia University, Mail Code 4701, 500 West 120th Street, New York, NY 10027, and should also arrange for three letters of recommendation to be sent directly to the above address.

Applications will be screened until the position is filled. Applications received before **January 15, 2008** are assured complete consideration.

*Columbia University is an Affirmative Action/Equal Opportunity Employer. The search is especially interested in candidates who through their research, teaching, and/or service will contribute to the diversity and excellence of the academic community. Women and minorities are urged to apply.*

**POSTDOCTORAL POSITIONS  
Materials Science and Related Fields  
Universidad de Chile**

The Center for Advanced Interdisciplinary Research in Materials (CIMAT) in Santiago, Chile, is seeking applicants to fill a number of Postdoctoral positions. The Center's mission is to perform scientific research and graduate student training with a strong commitment to excellence and interdisciplinarity. Applicants with a background in materials, as well as physics, chemistry, biology, and various fields of engineering are welcome.

To learn more about CIMAT, please visit the web address <http://www.cimat.cl> or contact Mrs. Carolina Rojas by e-mail at [crojas@ciamat.cl](mailto:crojas@ciamat.cl), tel:56-2-9784855, or fax: 56-2-6993982.

Prospective applicants are encouraged to discuss their plans with one of CIMAT's senior investigators. Applications including curriculum vitae, research plans, copies of up to three most relevant publications, and names and addresses of three references should be sent to:

Postdoctoral Positions, c/o Mrs. Carolina Rojas  
CIMAT, Av. Blanco Encalada 2008, piso zócalo, Santiago, Chile  
E-mail: [crojas@ciamat.cl](mailto:crojas@ciamat.cl)

Applications are considered on a rolling basis and may be submitted at any time.

**FACULTY POSITION  
Mechanical Engineering  
University of Colorado at Boulder**

The Department of Mechanical Engineering at the University of Colorado at Boulder invites applications for a full-time tenure-track position at the rank of assistant or associate professor with disciplinary expertise in materials science and engineering (MSE) (posting #802406). Outstanding applicants are welcomed in all MSE areas, but the successful candidate is expected to strongly complement and strengthen existing departmental research thrusts in bio-mechanical engineering, energy and environmental engineering, or micro/nanosystems engineering. Candidates must have an earned doctorate in Mechanical Engineering, Materials Science/Engineering, or a closely related field with a strong background in research in their area of specialization.

Successful candidates must have a strong commitment to scholarship, the development of an externally funded research program, and teaching at the undergraduate and graduate levels in mechanical engineering. Exceptionally well-qualified candidates with outstanding credentials may be considered for appointment at an appropriately higher academic level. Postdoctoral or similar professional experience is highly desirable but not required.

Interested persons should apply through the web site <https://www.jobsatcu.com> using posting #802406, and submit electronic files (pdf format) containing a cover letter, curriculum vita, two-page statements of research and teaching interests, respectively, and the names, addresses, and telephone numbers of at least three references.

Review of applications will begin as they are received, and will continue until the positions are filled. Additional information regarding the Mechanical Engineering Department search process as well as our research and academic programs can be found at [www.colorado.edu/mechanical](http://www.colorado.edu/mechanical).

*The University of Colorado is committed to diversity and equality in education and employment.*

**COLLOID/SURFACE SCIENTIST  
Liquidia Technologies**

Liquidia Technologies, an innovative nanotechnology company with applications in the life and materials science sectors, is seeking a Colloid/Surface Scientist to assist with research and new product development. Candidates must have a track record of multiple commercial successes in applying colloid science, a BS degree (minimum), and 5+ years relevant industry experience. A complete job description is available at [www.liquidia.com](http://www.liquidia.com). Submit cover letter and resume to [careers@liquidia.com](mailto:careers@liquidia.com). Job code: CSS. Liquidia is located in Research Triangle Park, NC.

EOE

**MRS**  
**materials 360 PLUS**

**Materials News  
Materials Information  
Resources and Links  
Meetings Calendar  
and Much More!**

[www.mrs.org/360plus](http://www.mrs.org/360plus)

Positions Available

**SENIOR FACULTY POSITION**  
**Department of Physics**  
**Binghamton University**

The Department of Physics, Applied Physics, and Astronomy at Binghamton University seeks outstanding applicants for a senior faculty position at the rank of Associate Professor or Full Professor to enable continued growth of its research programs in the areas of Condensed Matter and Materials Physics. Applicants with interests in the energy sciences, information sciences, and biophysics are especially encouraged. The successful applicant will have a strong record of generating external funding for their research program and provide leadership for the PhD program in Materials Science, which the department co-directs, and the planned PhD program in Physics. Binghamton University emphasizes high quality research and a commitment to excellence in graduate and undergraduate education.

The university has made substantial investments to its research infrastructure, including funding of the Innovative Technologies Complex with over \$20M in state-of-the-art analytical equipment and the Center for Advanced Microelectronics Manufacturing with greater than \$30M in roll-to-roll processing equipment. Both of these facilities complement a \$2M nanofabrication facility being constructed in the Department of Physics.

Applicants should submit a full vita, statement of research, statement of teaching philosophy, and list of three references to: Eric J. Cotts, Chair, Physics Department, Binghamton University, PO Box 6000, Binghamton, NY 13902 (Electronic submission of material in the form of one pdf file: physics@binghamton.edu). The selection process will begin **January 15, 2008** and continue until the position is filled.

*Binghamton University is an affirmative action/equal opportunity employer. Members of minority groups and women are especially encouraged to apply.*

**NC STATE UNIVERSITY**

**MULTIPLE FACULTY POSITIONS**  
**Department of Materials Science and Engineering**  
**North Carolina State University**

The NCSU Department of Materials Science and Engineering seeks highly qualified candidates for two tenured/tenure-track faculty positions. Appointments at all levels will be considered depending on qualifications. Applications from women and under-represented groups are strongly encouraged and dual-career issues can be addressed. Areas of current research in the department include:

- Electronic materials
- Computational materials science
- Opto-electronic materials
- Materials processing and synthesis
- Functional and structural nanomaterials
- Materials characterization
- Soft materials

Qualified candidates must hold a PhD degree in Materials Science and Engineering, or in a related science or engineering discipline. Senior level candidates must have a distinguished record of research accomplishments and publications, as well as a demonstrated ability to mentor graduate students and develop an innovative research and educational program. A commitment to teaching at the undergraduate and graduate levels is required.

MSE has 20 faculty, 90 undergraduate and 90 graduate students and annual research expenditures of \$8 million. The department is in Engineering Building I, newly constructed as part of the Engineering Complex on the NCSU Centennial Campus. Raleigh and the surrounding Research Triangle consistently rank among the nation's most desirable places to live.

Review of applications will begin on **January 2, 2008** and will continue until the positions are filled. The proposed starting date is August 16, 2008. Submit applications electronically through NCSU Human Resources at jobs.ncsu.edu, under position number 04-34-0715. Guidelines for the applications package are found on the department web site at www.mse.ncsu.edu. Individuals with disabilities requiring reasonable accommodations during the process should call 919-515-3148.

*NC State University is an Equal Opportunity and Affirmative Action Employer. In addition, NC State welcomes all persons without regard to sexual orientation.*

**ENDOWED CHAIR IN MATERIALS ENGINEERING**  
**Division of Physical and Materials Science**  
**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 possibly 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, 2007**. Applicants should submit a cover letter, CV, research plan, and contact information for five references to: Jung Chair Search, Dept. 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](mailto:few@tulane.edu).

*Tulane is an EO/AA employer.*

**Materials**  
**Postdoctoral Fellow**



We are accepting applications to participate in a new program concerning crystal growth of detector materials. These highly unique postdoc positions will help set up the new crystal growth facility, conduct crystal growth experiments, and characterize the crystals for their structural, optical, and electrical properties. The incumbents might also be involved in growth of thin films by sputtering, and growth of nano/microsize wires of semiconductor materials.

**Qualifications:**

- A Ph.D. within the last three years, in the fields of Materials Sciences, Chemical, or Nuclear Engineering
- Strong engineering skills such as running vacuum and gas distribution systems, and high temperature furnaces
- Experience in synthesis of inorganic crystals, flux, or solution growth; crystal growth experience is highly preferred but not required
- High proficiency in analysis and processing of data
- Demonstrated breadth of knowledge and experience in structural, optical, and electrical properties of materials in general, and detectors in particular

Please apply at <http://jobs.lbl.gov>. Select "Search" and enter "21061" in the search field. Reference "Newspaper/Journal" and "MRS Bulletin" as your source.

LBNL is an affirmative action/equal opportunity employer committed to the development of a diverse workforce. Learn more at [www.lbl.gov](http://www.lbl.gov).

Lawrence Berkeley National Laboratory (LBNL) is a world leader in science and engineering research, with 11 Nobel Prize recipients. LBNL conducts unclassified research across a wide range of scientific disciplines. The Materials Sciences Division at LBNL has the mission to discover, create, characterize, and develop new materials and materials phenomena. Learn more about the research programs at <http://www.lbl.gov/msd>.