



The Singapore 2010
Youth Olympic Village

The Elite NANYANG ASSISTANT PROFESSORSHIP



Singapore's science and technology university, Nanyang Technological University (NTU), invites outstanding researchers and scholars to apply for appointments as the elite Nanyang Assistant Professors. Up to 10 appointments will be made.

Successful candidates will

- Receive start-up research grants of up to S\$1 million
- Enjoy attractive remuneration package and other benefits including assistance with accommodation
- Hold tenure track appointments and play lead roles in the university's new wave of multi-disciplinary, integrative research.

Candidates should be under the age of 40 years at the date of application, within 10 years of gaining their PhD and ready for independent leadership of their own research groups.

For enquiries, please email to:

NanyangProfessorship@ntu.edu.sg

About the University

Nanyang Technological University, among the world's top 100 universities*, has made unprecedented research investments, emphasizing cutting-edge research and revolutionary technological innovations across multiple disciplines.

The University will be embarking on key global themes that will have great impact to the 21st century.

NTU has already attracted high caliber faculty and researchers to its ranks and will continue consolidating its world-level teams, especially in niches research areas like sustainability, water and environmental life science and engineering; clean energy; healthcare, neuroscience, bio-engineering; structural biology; research relevant to Asian culture and economics; cultural intelligence; and interactive digital media. However, NTU welcomes all other areas, including humanities and social sciences.

* Time Higher Education-QS World University Rankings 2009

Application now open for submission till
1 October 2010, 11.59 pm (UTC/GMT + 8 hours)
Kindly note that only online applications will be accepted.

<http://www.ntu.edu.sg/NAP>



UNIVERSITY OF MINNESOTA

FACULTY POSITION

Materials Science and Engineering

The Department of Chemical Engineering and Materials Science at the University of Minnesota seeks to fill a faculty position in Materials Science and Engineering at the Assistant (tenure-track), Associate, or Full Professor level. The Department will consider outstanding candidates in any area of **experimental Materials Science**. Applications in hard materials (e.g., electronic, photonic, magnetic, or energy materials), are particularly welcome. Assistant Professor candidates should have a strong academic record (including a PhD degree), outstanding potential to establish an independent research program, and a commitment to teaching in a highly interdisciplinary environment. Associate and Full Professor candidates should have a distinguished academic record, similar commitment to teaching, and 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. Submit applications at <https://employment.umn.edu/hr>. Search for requisition number 166820. Information on the Department is available at www.cems.umn.edu. Review of the applications will begin in September 2010 and continue until the position is filled. The successful candidate will be in place in 2011.

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

**Staff Scientist
Molecular Foundry**

The Molecular Foundry at Lawrence Berkeley National Laboratory seeks an outstanding staff scientist to perform original research utilizing top-down and bottom-up nanofabrication technologies with the emphasis on gas phase material deposition (e.g., Atomic layer deposition and plasma enhanced chemical vapor deposition).



The staff scientist will dedicate equal effort to supporting facility users and to leading an innovative research program that advances the science of micro/nano fabrication of integrated nanostructured systems.

The successful candidate may be hired into a career-track or career appointment, depending on the scientific breadth and depth of research related to nanoscale fabrication and film deposition as well as demonstrated leadership of independent research and development work.

Please view the full job posting and requested application materials, and apply at <http://jobs.lbl.gov>. Search for #23769.

The Molecular Foundry at Berkeley Lab is a user facility for the design, synthesis and characterization of materials with nanometer dimensions, recently established by the U.S. Department of Energy (DOE). Learn more at <http://foundry.lbl.gov>.



Berkeley Lab is a U.S. Department of Energy national laboratory that conducts multidisciplinary research. Eleven Nobel laureates are associated with Berkeley Lab, which is managed by the University of California. AA/EEO <http://www.lbl.gov/>

**Neutron Scattering
Instrument
Development Leader**

Neutron Sciences Directorate at Oak Ridge National Laboratory invites applications for a Instrument Development Leader. ORNL is becoming the world's foremost center for neutron science. Research at ORNL encompasses the physical, chemical, materials, biological, and medical sciences and will provide opportunities for up to 2000 researchers each year from industry, research facilities, and universities all over the world.

We seek a candidate who can lead the effort to provide cutting-edge scientific capabilities at SNS and HFIR through the continued modernization of operating instruments, the development of new techniques on existing instruments, the development of new instruments, and development of instruments for new sources such as the SNS second target station and the HFIR second cold source. Must have an understanding of the scientific contributions that can be made with neutron scattering with the vision to identify and lead important new thrusts in instrumentation to enhancing neutron scattering scientific capabilities.

For more information about the position or to apply visit: http://jobs.ornl.gov/neutron_science.shtml

jobs.ornl.gov

To learn more about neutron science at ORNL visit: <http://neutrons.ornl.gov/>



Real Science. Real Life.



**Assistant/Associate Professor Opening in
Transmission Electron Microscopy of Materials**

The Department of Materials Science and Engineering at The Pennsylvania State University has an opening for a tenure-track faculty member with expertise in transmission electron microscopy and related materials characterization techniques. Appointment at the Assistant or Associate Professor level is preferred.

Penn State has highly ranked graduate and undergraduate programs in materials science and engineering with 164 graduate students and 160 undergraduates. The department has 30 faculty members with exceptional research programs on electronic and photonic materials, metals, ceramics, polymers, nanomaterials, biomaterials, energy conversion materials, and computational materials science. The Materials Research Institute, Nanofabrication Laboratory and the Materials Characterization Laboratory house state-of-the-art facilities for characterization, synthesis, nanofabrication, and computation, which will be in the new \$230 million Millennium Science Complex housed on Penn State's central campus.

The successful candidate will be expected to establish a funded, independent research program as well as collaborate with other researchers at Penn State. Opportunities exist to teach core courses in the undergraduate program and graduate courses on topics related to transmission electron microscopy and other analytical techniques. The search committee will evaluate applications as received and will continue to do so until the position is filled. Applicants should submit 1) a curriculum vitae, 2) up to three pages describing research interests, 3) a one-page teaching statement, and 4) a list of at least three references with contact information. Applications should be submitted electronically to the Department of Materials Science and Engineering at search@matse.psu.edu.

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

Opportunities as **limitless as Penn State.**
www.psu.jobs

LAWRENCE POSTDOCTORAL FELLOWSHIP

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

Candidates will do original research in one or more aspects of science relevant to the mission and goals of LLNL which include: Physics, Applied Mathematics, Computer Science, Chemistry, Material Science, Engineering, Environmental Science, Atmospheric Science, Geology, Energy, Lasers and Biology. Successful candidates may participate in experimental or theoretical work at LLNL, and will have access to LLNL's extensive computing facilities, specialized laboratory facilities and field equipment. A senior scientist will serve as a mentor to each of the Fellows. The candidates will receive full management and administrative support. The salary is \$8,700 per month.

Please refer to our web page <https://fellowship.llnl.gov> for eligibility requirements and instructions on how to apply. When applying and prompted, please mention where you saw this ad. The deadline for application is November 1, 2010. LLNL is operated by the Lawrence Livermore National Security, LLC, for the U.S. Department of Energy, National Nuclear Security Administration. We are proud to be an equal opportunity employer with a commitment to workforce diversity.



<https://jobs.llnl.gov>



STAFF SCIENTISTS

IMRA America has openings in our Research Department for a Battery Materials Scientist and Solar Cell Materials Scientist. For more information, please visit our website at www.imra.com. Interested candidates can send resume to employment@imra.com.



SEOUL
NATIONAL
UNIVERSITY

TENURE-TRACK FACULTY POSITIONS

The Graduate School of Convergence Science and Technology at Seoul National University invites applications from non-Korean citizens for tenure-track faculty positions at all levels in the Department of Nano Science and Technology, Department of Digital Contents Convergence, and Department of Intelligent Convergence Systems.

Seoul National University is one of the leading universities in Korea. In an effort to promote and pursue converging technologies, the University founded the Graduate School of Convergence Science and Technology in March 2009. Additional information can be found at http://gscst.snu.ac.kr/index_eng.php. The Graduate School seeks highly qualified candidates specialized in the broad areas including, but not limited to: Nanomaterials, Nanoelectronics, Nanophotonics, Nano-bio Technology, Information Retrieval, Information Visualization, HCI, Social Network Analysis, Data Mining/Machine Learning, Artificial Intelligence, Robotics, Intelligent Systems, Future Automotive Systems, Smart Vehicles, Green Vehicles, Computer Vision, and Software Engineering. The anticipated start date is March 1, 2011.

The responsibilities of the position include teaching at the undergraduate and graduate levels, supervising graduate students, and developing and maintaining active research programs. Applicants for the position must submit a CV, a teaching statement, a research statement, and the names of at least three references. All application materials must be submitted electronically via email to Bumnyoe Kim at bumnyoe@snu.ac.kr.

Review of applications will commence on July 20, 2010 and continue until the positions are filled.



POSTDOCTORAL POSITION Ceramic Processing Research

The Department of Materials Science and Engineering at Rutgers University is seeking to fill an industrial-sponsored postdoctoral associate position in ceramic processing research. Inventive scientific and technical experience in solution processing and characterization of polycrystalline ceramics in any of a wide range of structural and functional materials areas is preferred. It is essential that the candidate's work demonstrate the ability to derive microstructure-property relationships, creativity, and ability to traverse into materials areas other than their PhD focus. The candidate must demonstrate the ability to initiate, conduct, and publish cutting-edge research.

The position is available immediately and offers a highly competitive salary and benefits. Candidates should indicate "Structure Function Postdoc" in the subject line and submit the following: a 1-2 page cover letter stating why they are qualified and when they are available for employment, curriculum vitae, three letters of reference, relevant publications now 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.

Rutgers is an equal opportunity/affirmative action employer.



POSTDOCTORAL RESEARCHER

Joint KACST/California Center of Excellence on Nano Science and Engineering for Green Technologies University of California, Los Angeles

The Joint KACST/California Center of Excellence on Nano Science and Engineering for Green Technologies at UCLA invites applications for a postdoctoral researcher position to perform experimental research on a new exciting multidisciplinary project.

Applicants should possess a PhD degree in Material Science, Chemistry, or Electrical Engineering and have expertise in two of the following or related disciplines: photovoltaic devices, organic materials for optoelectronics applications, and solar cells. A proven publication record is also necessary. Interested candidates should send an email including a) resume and b) cover letter stating their research and career interests, to Dr. M. Xue at mxue@ee.ucla.edu for immediate consideration.

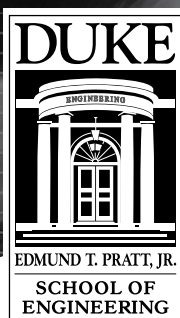
FACULTY POSITIONS

Materials Science University of Wisconsin, Eau Claire

The Materials Science Program invites applications for two (2) tenure-track faculty positions beginning August 22, 2011. We seek applicants who have a strong commitment to undergraduate teaching including student/faculty collaborative research.

Potential applicants may obtain a complete description and application requirements by referring to our website at http://www.uwec.edu/Matsci/position.html. Criminal background checks are required prior to employment.

Women, minorities, individuals with disabilities, and veterans are encouraged to apply.



Chair of the Department of Mechanical Engineering and Materials Science

Duke University and the Pratt School of Engineering invite applications and nominations for the position of Chair of the Department of Mechanical Engineering and Materials Science (MEMS). MEMS is one of four departments in the Pratt School of Engineering, within a world-class, top-ranked teaching and research institution.

The Department currently has 26 full-time faculty members and over 250 students pursuing BS, MS, or PhD degrees in Mechanical Engineering and Materials Science. With average annual research expenditures of \$6M, the Department was recently ranked 8th nationally for scholarly productivity of faculty by the Chronicle of Higher Education (2008). The Department derives strength from cross-disciplinary collaborations in the Pratt School of Engineering, in the School of Medicine, and in Duke's hallmark interdisciplinary centers. The Pratt School is committed to the Department's continued growth and excellence, with several faculty hires in progress or planned.

Successful candidates will have a track record of dynamic leadership skills in academia, possess excellent communication and interpersonal skills, and be able to lead the Department in developing and implementing a compelling vision for its research, education, and service programs. Key responsibilities will include strategic planning, development of emerging areas (e.g., energy research), coordination of interdisciplinary activities, commitment to diversity in faculty and staff hiring, and assistance with securing funding for scholarships, endowed chairs, and center/focus area initiatives.

Candidates must possess a PhD degree or equivalent in Mechanical Engineering, Materials Science, or a closely related field, and must qualify as a full professor in the department, able to continue a productive research program of international stature. The preferred start date for this position is July 2011. Applicants should submit the application packet containing a cover letter, complete curriculum vitae, and names and addresses of at least four references to the following website: http://www.mem.s.duke.edu/application-for-chair.

Please contact the head of the search committee, Prof. Stefan Zauscher at zauscher@duke.edu with questions or nominations of candidates. Applications received before November 1, 2010 will receive full consideration, but applications will continue to be accepted until the position is filled.

Duke University and Health System is an equal opportunity institution. Duke is committed to recruiting, hiring, and promoting qualified minorities, women, individuals with disabilities, and veterans.



FACULTY POSITION School of Materials Engineering

The School of Materials Engineering at Purdue University invites applications for a faculty position at the assistant, associate, or full professor level. Targeted research areas are electron microscopy, polymer physics, polymer mechanics, and materials for energy sustainability, with outstanding candidates having other research emphases also considered. Successful candidates must hold an earned PhD degree or equivalent in materials science and engineering or related discipline(s) and demonstrate the ability to develop independent research programs at the forefront of their field, as well as effectively teach graduate and undergraduate courses.

The School of Materials Engineering at Purdue University has undergone significant growth in the last five years and now has 20 faculty engaged in interdisciplinary research across a campus that contains a wide spectrum of researchers in materials science (see www.engineering.purdue.edu/MSE/).

Submit applications on-line at <https://engineering.purdue.edu/Engr/AboutUs/Employment/Applications>, including curriculum vitae, teaching and research plans (each 3 pages maximum), copies of up to three most relevant publications, and names of three references. For information/questions regarding application submission, contact Marion Ragland, Faculty Recruitment Coordinator, College of Engineering, Attn: Dept. Engineering Education at ragland@purdue.edu. Address questions regarding positions to Prof. Kevin Trumble, Search Chair at driscol@purdue.edu. Review of applications begins **October 1, 2010** and continues until the position is filled.

Purdue University is an equal opportunity/equal access/affirmative action employer fully committed achieving a diverse workforce.



TENURE-TRACK FACULTY POSITION

School of Materials Science and Engineering

The School of Materials Science and Engineering at Clemson University is seeking an outstanding candidate to fill a tenure-track position at the Assistant Professor level. It is expected that the candidate will be capable of establishing a high quality research program that coincides with one or more of the following areas: metallurgy, ceramics, optical/electronic materials, and computational materials science. However, the School will also consider exceptional candidates whose research aligns with Clemson University's strategic emphasis areas which include energy and automotive innovation.

Candidates must hold a doctoral degree in Materials Science and Engineering or a related discipline, have demonstrated a record of prior research accomplishments, and shown the potential to educate and mentor students. Successful candidates will be expected to attract significant external funding, lead nationally recognized research programs, and be able to collaborate with current faculty both within MSE and the University as a whole. In addition, the candidate must demonstrate the potential to teach both undergraduate and graduate courses, particularly those focused on aspects of metallurgy and ceramics.

All applications should be submitted electronically. Qualified applicants should provide: 1) a current CV; 2) research statement describing a minimum of two externally fundable research programs and also highlighting complimentary capabilities to existing faculty and programs (2-6 pages; for current faculty research areas, please refer to <http://www.clemson.edu/mse/People/Faculty.htm>); 3) a description of teaching philosophy including undergraduate and graduate course competencies and how they would fit into the present academic programs (1-2 pages); and 4) names and contact information for three references. The application package should be combined into a **single PDF** file and emailed to: msesearch@clemson.edu. Questions can be sent via email to Dr. Jian Luo, Chair of the MSE Search and Screening Committee at jianluo@clemson.edu; no phone calls please. Review of applications will commence **November 1, 2010** with full consideration being assured to applications received by this date. Screening will continue until the position is filled. Women and minorities are especially encouraged to apply.

Clemson University is an Affirmative Action/Equal Opportunity employer and does not discriminate against any individual or group of individuals on the basis of age, color, disability, gender, national origin, race, religion, sexual orientation, veteran status, or genetic information.



FACULTY POSITIONS Next Generation Energy Systems

Michigan Technological University is in the second year of a Strategic Faculty Hiring Initiative (SFHI) that will add up to ten tenure-track positions, open in rank, during the 2009-2010 and 2010-2011 academic years. SFHI is an ongoing commitment to expand Michigan Tech's faculty resources in targeted strategic areas of multidisciplinary research and inquiry.

Michigan Tech seeks to attract exceptional candidates whose interests and capabilities match the following areas with the goal of strategically bridging existing strengths and enabling expanded research. These include the areas of transmission and distribution, generation, storage and management, environmental mitigation, conservation and harvesting, regulation and energy policy, energy economics, and societal implications.

Michigan Tech seeks a diverse applicant pool from a wide range of disciplines including engineering and sciences, policy, energy economics, and allied fields, in this strategic initiative; a PhD degree is required and postgraduate experience is strongly preferred. For full consideration, applications should be received by **October 1, 2010**; review will continue until all positions are filled. Attractive salary, benefit, and start-up packages will be provided for successful applicants.

Details about Michigan Tech's SFHI and application instructions are available at www.mtu.edu/sfhi. More general information on Michigan Technological University is available at www.mtu.edu.

Michigan Tech is an internationally renowned doctoral research university located in Michigan's scenic Upper Peninsula, on the south shore of Lake Superior. Houghton provides a unique setting where natural beauty, culture, education, and a diversity of residents from around the world come together to share a superb living and learning experience.

Michigan Tech is an ADVANCE institution, one of a limited number of universities in receipt of NSF funds in support of our commitment to increase diversity and the participation and advancement of women in STEM.

Michigan Technological University is an equal opportunity, affirmative action employer/educational institution. Applications from women and minorities are encouraged.