

## PhD Student Positions

### *In-Situ* Transmission Electron Microscopy (TEM)

Three PhD positions are available for graduate students to conduct a joint research program on *in-situ* TEM of energy materials at the University of Illinois at Chicago (UIC) and Michigan Technological University (MTU). The students will be admitted to the Department of Mechanical Engineering at Michigan Technological University and will have the opportunity to spend two or three years of their PhD research program at the University of Illinois at Chicago to use the new ARM 200CF STEM with Cs Aberration Corrected and EELS/EDS capabilities.

**Qualifications:** Outstanding students with interests and background on transmission electron microscopy characterization of nanomaterials are encouraged to apply. Students who have previous research experience on electron microscopy of Metal-Insulator Transition, Piezoelectric Energy Harvesting, Thermoelectrics, and Li-ion Batteries are also encouraged.

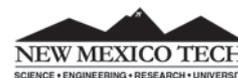
**How to Apply:** An interested student should send CV, sample publications, and contact information for three references to [rsyassar@uic.edu](mailto:rsyassar@uic.edu) and [reza@mtu.edu](mailto:reza@mtu.edu). For submission, please merge all the files into a single PDF file.

**Closing Dates:** The positions are available starting summer 2012, fall 2012, or spring 2013. The applications will be reviewed in the order that they are received until the positions are filled.

EOE/AA Employer

**MichiganTech**

**UIC** UNIVERSITY OF ILLINOIS AT CHICAGO



## FACULTY POSITIONS

### Materials and Metallurgical Engineering Department

The Materials and Metallurgical Engineering Department at New Mexico Tech has openings for two tenure-track faculty positions at the assistant or associate level beginning August, 2012. Exceptional candidates with leadership skills will also be considered for a full professor position. We invite applications from any field of materials science and engineering with emphasis on the following topics: (a) advanced processing of materials for structural and/or other multifunctional applications, and (b) materials in the area of bioengineering. Both topics may address structure and behavior at any length scale (nano to bulk or multiscale). Interdisciplinary research is particularly encouraged. The Materials Department offers bachelor's through doctoral degrees, and the selected candidates are expected to demonstrate excellence in both teaching and research that include graduate and undergraduate students.

Applications must include a cover letter, current resume including list of publications, a summary of research interests, and teaching interests/philosophy, plus at least three references. This position will remain open until filled, but candidates are encouraged to apply by **May 30, 2012** for full consideration. Apply to: New Mexico Institute of Mining and Technology, Human Resources, 801 Leroy Place, Brown Hall, Box 023, Socorro, NM 87801. Questions regarding this position may be directed to Dr. Nikolai Kalugin at [nkalugin@nmt.edu](mailto:nkalugin@nmt.edu). For further information about New Mexico Tech and Socorro, New Mexico, go to our website at [www.nmt.edu](http://www.nmt.edu).

New Mexico Tech is an Equal Opportunity/Affirmative Action Institution



A Department of Energy National Laboratory

### Postdoctoral Appointee Polymer Science/Soft Matter

Sandia National Laboratories is the nation's premier science and engineering lab for national security and technology innovation with major facilities in Albuquerque, New Mexico and Livermore, California. We are a world-class team of scientists, engineers, technologists, post docs, and visiting researchers all focused on cutting-edge technology, ranging from homeland defense, global security, biotechnology, and environmental preservation to energy and combustion research, computer security, and nuclear defense. To learn more, please visit our website at [www.sandia.gov](http://www.sandia.gov). We are searching for a Post Doc Appointee—Polymer Science/Soft Materials, for the Center for Integrated Nanotechnologies (CINT) Science Department for the Albuquerque facility. A benefit and relocation package is available.

The Center for Integrated Nanotechnologies (CINT) at Sandia National Laboratories is searching for a driven postdoctoral appointee to perform leading-edge research designing and synthesizing block copolymers for the development of novel materials. This work supports projects that explore the integration of functional molecules and nanoparticles into robust synthetic matrices to create complex hierarchical structures for responsive and reconfigurable materials. These multidisciplinary projects involve chemists, biologists, physicists, and encompass both experiment and modeling.

Please apply online at <http://www.sandia.gov/careers/search-openings.html>, click Search for Openings, and reference Job ID Number 640146. U.S. Citizenship normally required.



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## Senior Positions Available

NINGBO INSTITUTE OF MATERIAL TECHNOLOGY AND ENGINEERING (NIMTE) • CHINESE ACADEMY OF SCIENCES (CAS)

Ningbo Institute of Material Technology and Engineering (NIMTE) is located in Ningbo, a prosperous port city in Zhejiang Province, China that enjoys both a rich cultural heritage and highly developed economy. NIMTE is the first institute of CAS in Zhejiang Province. NIMTE was founded in 2004 with the core value to "Facilitate the application of scientific research achievements, and deliver innovative solutions for industry and society," and with the vision to become a unique world-class research institute in materials science, technology, and engineering.

NIMTE is mainly engaged in the research on magnetic materials, polymer and composite materials, functional materials and nano-devices, surface engineering, and new energy materials. In March 2009, NIMTE launched the construction phase 2, in which NIMTE will be upgraded to the Ningbo Industrial Technology Research Institutes (NITRI), consisting of three subsidiary institutes respectively named the Institute of Materials Technology, the Institute of Advanced Manufacturing, and the Institute of New Energy Technology.

NIMTE owns a public technical service platform with facilities valued at 120 million RMB. At present, NIMTE has 650 staff, including one academicians and about 140 professors. NIMTE has undertaken more than 400 research projects with a total grant of 600 million RMB. In the past few years, NIMTE has filed 494 patents and published over 590 scientific papers and proceedings. NIMTE focuses on the development of new materials, new energy, and advanced manufacturing techniques. The research information can be found at [www.nimte.ac.cn](http://www.nimte.ac.cn).

NIMTE invites outstanding applications in emerging fields for senior positions at all ranks, including the National "Qianren" candidate, the "Youth Qianren Talents," the "Hundred Talents Program" of CAS, the "Qianren" of Zhejiang, and the Flagship Leader, Team Leader, and Young Leader of NIMTE. Appointments can be at the Chief Professor/Engineer, full, or associate professor rank commensurate with the candidate's experience and accomplishments.

NIMTE offers generous and competitive start-up packages, including startup funds of 0.5-10 million RMB, house purchasing privilege and subsidies under the Talent Recruitment Programs, additional bonuses based on individual performance, and effective profit distribution.

**Applications and nominations enclosing an updated CV should be sent to:**

Dr. Ruiji Zhang, Department of Human Resources  
Ningbo Institute of Material Technology and Engineering  
519 Zhuangshi Road, Zhenghai, Ningbo  
Zhejiang, P. R. China 315201  
Tel: (86) 574-87911123  
E-mail: [rlzhang@nimte.ac.cn](mailto:rlzhang@nimte.ac.cn)

NIMTE will have a recruitment booth at the 2012 MRS Spring Meeting Career Center. Please contact Prof. Shang-Fen Ren at [stren@nimte.ac.cn](mailto:stren@nimte.ac.cn) or 408-431-0713 (cell) to arrange a face-to-face meeting. NIMTE will also host a reception on Tuesday, April 10, from 6:30 to 9:00 pm. All interested people and friends are invited to stop by the Club Room at the Marriott Marquis.



FRONTIER INSTITUTE  
OF SCIENCE AND TECHNOLOGY  
前沿科学技术研究院  
**FIST**

## CENTER DIRECTORSHIPS/TENURE-TRACK FACULTY POSITIONS/POSTDOCTORAL RESEARCH FELLOWS

Frontier Institute of Science and Technology (FIST)  
Xi'an Jiaotong University (XJTU)

Valid through June 30, 2012

FIST is a large selective investment by XJTU in an effort to establish a world-class, multi-disciplinary research institute. To achieve this goal, FIST is setting up 14 research centers of excellence in Mathematics, Physics, Chemistry, Bio-Science/Life-Science/Basic-medical-Science, and Materials Science, and adopts a new management system similar to that of most U.S. universities. Seven out of the 14 planned centers have been established recently, and FIST is now recruiting the remaining seven Center Directors (either full-time or honorary). In addition, FIST invites applications to fill its multiple, full-time tenure-track faculty positions at all levels (from lab director to group leader), as well as postdoctoral positions. See our Chinese ad at <http://fist.xjtu.edu.cn/show.php?id=40> for details.

An eligible candidate for the Center Director position should be an internationally renowned scientist and established leader in his/her field, with the ability and will to build his/her center into an internationally recognized center of excellence. Successful candidates will be provided with a sizable start-up package to establish a research center, together with a salary (500k-800k RMB annually for full-time directors) or an honorarium commensurate with the working days (for honorary directors). See our Chinese ad at <http://fist.xjtu.edu.cn/show.php?id=40> for details.

In addition to the Center Director positions, FIST also invites applications in the above-mentioned areas to fill its full-time, tenure-track faculty positions at all levels, from lab director to group

leader. Applications for postdoctoral positions are also welcome. An eligible faculty candidate should have a track-record for excellence in research and the potential to lead a lab or a group to success. Successful candidates will be provided with a competitive start-up package including an annual salary of 100k-500k RMB, a 15-200m<sup>2</sup> lab space, and enough start-up funds, together with many other benefits. Position level and start-up package will vary with the candidate's qualification. See our Chinese ad at <http://fist.xjtu.edu.cn/show.php?id=40> for details.

Interested individuals should set up their free ResearcherID webpage on <http://www.researcherid.com>. Please send your ResearcherID citation information along with a cover letter, CV, and a list of ten representative publications to:

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Email: [fist@mail.xjtu.edu.cn](mailto:fist@mail.xjtu.edu.cn)

XJTU is an AA / EOE employer.