



LECTURER

Department of Materials Science and Engineering
College of Engineering
University of Illinois at Urbana-Champaign

The Department of Materials Science and Engineering (www.matse.illinois.edu) invites applications for a full-time, untenured position at the rank of Lecturer. We are looking for a dynamic, motivated individual who will contribute to the educational mission of the department. The Lecturer will develop and teach courses in hard materials and mechanics that will be targeted to undergraduate students. In addition, successful applicants will be expected to be involved in undergraduate and masters research programs, capstone design projects, and student advising.

The position requires a PhD degree in Materials Science and Engineering or a relevant engineering/scientific field. Prior experience with teaching at the college or university level is preferred.

The position is a full-time, 9 month academic year (9-month service basis paid over 12 months) appointment. Salary is competitive and based on experience. The desired starting date is August 16, 2014. The initial appointment will be for one year with the possibility for renewal on an annual basis thereafter based on funding and performance reviews.

The closing date is **March 31, 2014**. Interviews may be conducted before the closing date but no decision will be made until after the closing date.

To apply, please create a candidate profile at <https://jobs.illinois.edu> and upload a Curriculum Vitae with the names and contact information for three professional references and a letter of interest which includes teaching interests and evidence of innovative teaching in a university setting.

For further information about the application process, please contact the department by e-mail at mse@illinois.edu or by telephone at 217-333-1441.

Illinois is an Affirmative Action/Equal Opportunity Employer and welcomes individuals with diverse backgrounds, experiences, and ideas who embrace and value diversity and inclusivity. (www.inclusivillinois.illinois.edu). We have an active and successful dual-career partner placement program and a strong commitment to work-life balance and family-friendly programs for faculty and staff (<http://provost.illinois.edu/worklife/index.html>).



FACULTY POSITION

Department of Materials Science and Engineering

The Department of Materials Science and Engineering at the University of Virginia solicits outstanding applicants for a tenure-track faculty position at the assistant professor rank. Responsibilities include undergraduate and graduate teaching, developing an internationally recognized research program, and service and outreach. Opportunities exist to develop state-of-the-art capabilities for independent research, for interdisciplinary collaborations with existing faculty, and to initiate new research initiatives focused on metallurgical aspects of fracture and fatigue of metallic materials. Candidates with an exceptional record of scholarly research achievement and demonstrated success in teaching may be considered at the associate professor level.

The successful candidate will possess a doctoral degree in either materials science and engineering or a closely related field. The successful candidate will have a strong commitment to excellence in teaching at the undergraduate and graduate levels in materials science and engineering and will demonstrate the ability to develop a world-class, sponsored-research program centered on MS and PhD students. We seek a candidate who will initiate new areas of research and teaching in the fracture and fatigue of metals, enhance departmental strengths through research collaborations, especially the Center for Electrochemical Science and Engineering (CESE) in the area of environmental effects on fracture and fatigue, and contribute broadly across disciplines in the School of Engineering and Applied Science.

Applications must be submitted on-line through JOBS@UVA at <https://jobs.virginia.edu> and reference **Posting Number 0613574**. Qualified candidates are required to include a letter of application, a detailed curriculum vitae, a statement of research plans, teaching philosophy and interests as well as contact information for at least three references. The anticipated starting date for this position is August 2014.

The University of Virginia is an equal opportunity/affirmative action employer committed to developing diversity in faculty and welcomes applications from women, minorities, veterans and persons with disabilities.



FACULTY POSITION | Corrosion Engineering

The Chemical and Biomolecular Engineering Department at the University of Akron seeks applications for a full-time, tenure-track open rank faculty position as part of its **new** Corrosion Engineering Program for the Fall 2014 semester.

We are seeking highly qualified candidates with an earned PhD degree in Chemical Engineering, Material Science and Engineering, or a closely related discipline. Candidates who have expertise in fracture mechanics relating to stress corrosion cracking (SCC), high temperature oxidation, and computational modeling in corrosion are particularly encouraged to apply. Other candidates whose corrosion research expertise complements current faculty in our corrosion program are also invited to apply.

Duties for this position include teaching a diverse group of undergraduate and graduate students, supervising MS and PhD students, establishing/managing a vigorous, externally funded scholarly research program, and participating in faculty governance/professional service such as community outreach and instructional support.

Questions relating to the research expertise sought and the corrosion program might be directed to Dr. Robert Scott Lillard (the Interim Director of National Center for Education and Research on Corrosion and Materials Performance, NCERCAMP) at rsll@uakron.edu or 330-972-7463, or Dr. Homero Castaneda Lopez at homeroc@uakron.edu or 330-972-7398. Other questions should be directed to Dr. Bi-min Zhang Newby at bmznewby@uakron.edu or 330-972-2510.

For complete information and to apply, visit <http://www.uakron.edu/jobs>. Job ID# 8119.

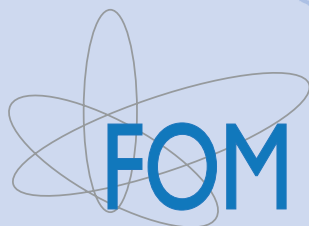
Applicants should be prepared to attach a resume, a statement of teaching philosophy, research plans, copies of selected publications, and the names of three references to the application. Review of applications will begin on February 17, 2014, and the search will continue until the position is filled.

Information related to the College of Engineering and the Department of Chemical and Biomolecular Engineering may be found at <http://www.engineering.uakron.edu> and <http://www.uakron.edu/engineering/CBE/>, respectively. More information about the corrosion program in particular can be found at <http://www.uakron.edu/uakroncorrosion/>.

EEO/AA

FOM Institute AMOLF performs leading fundamental research on physics of Biomolecular Systems and Nanophotonics; two areas with key potential for technological innovations. The Institute contributes to knowledge transfer to industry and society and trains talented young researchers. AMOLF is located at Science Park Amsterdam, the Netherlands, and engages approximately 140 scientists and 70 support staff. See also www.amolf.nl

The positions are part of AMOLF's new Photovoltaics Program on Light Management in New Photovoltaic Materials, a nanophotovoltaics research program that will grow to 30-40 scientists in the coming years.



FOM Institute AMOLF is hiring two new Group leaders / Assistant professors in:

Light management in new photovoltaic materials

FOM Institute AMOLF (Amsterdam, the Netherlands) is looking for **two tenure-track group leaders** in the field of solar energy conversion. The successful candidates will leverage expertise in nanophotonics to help develop ultra-high efficiency photovoltaics that can be fabricated at low costs. Candidates with strong physics, chemistry and/or materials backgrounds related to:

- Materials for high-efficiency photovoltaics (e.g. III-V or ultra-thin Si)
 - Quantum dot synthesis, characterization and device integration
 - Spectral shaping (e.g. via up/down conversion)
 - Multijunction cells by molecular self-assembly
- are especially encouraged to apply, but highly innovative proposals in any area of solar energy conversion will be seriously considered.

Group leaders will be offered a competitive start-up package for equipment and PhD students to build up their own lab. Several major research grant options for further extended support are available. Technical support staff will work closely with new group leaders to expedite research results and enable rapid development of the group's laboratory.

The group leader position is equivalent to that of tenure-track assistant professor. The positions are offered for a period of five years, with the possibility of tenure (permanent position and adjunct professorship at one of the Dutch universities) afterwards. To apply, submit an application letter, a research proposal (maximum 6 pages), resume with list of publications, and names of 3 references to application@amolf.nl. For further details: see <http://www.amolf.nl/jobs-internships/group-leaders/>.

Evaluation of applications will begin immediately and continue until both positions are filled.

Online screening may be part of the selection. Commercial activities in response to this advertisement are not appreciated.



FACULTY POSITION

State Key Laboratory of Metastable Materials Science and Technology

Yanshan University

The State Key Laboratory of Metastable Materials Science and Technology (<http://mmlab.ysu.edu.cn/>) of the Yanshan University (<http://www.ysu.edu.cn/>), Qinhuangdao, China, invites applications for multiple faculty openings at all ranks. Highly qualified candidates are also encouraged to apply for various distinguished faculty positions, including the Changjiang Scholarship, the Jieqing Scholarship, and the Qianren Professorship from the central government. Areas of special interest include the physical/mechanical/biomedical/electrochemical properties of nanomaterials and/or amorphous metallic alloys, magnetism of nano- and amorphous materials, radiation effects in nanostructured materials, and materials for energy generation, storage, and conversion.

A doctoral degree in materials science and engineering or a related field is required, and postdoctoral experience is preferred. Candidates for senior positions are required to have a strong track record of innovative research, high-quality publications, and leadership and high standing in the academic community.

Highly qualified candidates may receive the following salary and benefits: a yearly salary of 500k to 800k Chinese Yuan (CNY), a housing allowance of at least 1 million CNY, and startup research funding of at least 5 million CNY.

To apply, submit the following to tdshen@ysu.edu.cn: 1) a resume with publications listed and the times cited for each publication, 2) research plans, 3) teaching interests, and 4) a list of three references.

SIGMA-ALDRICH®

Senior Scientist

Sigma Aldrich is seeking a Senior Scientist to be a part of its global R&D team in its business unit—SAFC Hitech. This is based in Haverhill, MA and reporting to the manager of R&D.

This individual will carry out ALD/CVD deposition experiments and characterization and document the results independently. He/She will design and execute experiments involving the evaluations of target molecules. The position requires the hands-on experience of ALD/CVD reactors and processes to create and execute the experiments. This opportunity allows participation on a dynamic team in a high-tech, growing organization where individual success is recognized and rewarded.

Responsibilities:

- Develop, design, and build custom hardware when necessary to run experiments that require modifications to standard equipment
- Complete, update, and maintain equipment and process standard operation procedures (SoPs) and Preventative Maintenance (PM) documents
- Troubleshoot and perform or outsource maintenance and repairs on deposition and characterization equipment
- Collaborate with global R&D teams to develop advanced processing and characterization procedures
- Travel as needed

Requirements:

- Exposure/understanding of thin film/deposition and characterization processes
- Solid knowledge of vacuum equipment and protocols
- Two or more years' experience in the semiconductor or related industry preferred
- Exceptional proficiency with trouble-shooting and repair of electrical, mechanical, fluid systems
- Familiarity with SPC, DOE, and statistical optimization methods and the ability to make data driven decisions
- Ability to work in a cleanroom environment
- Experience with CAD a plus

To apply, visit <http://bit.ly/1nwmVPI>

Sigma-Aldrich is an Equal Opportunity Employer.



ELECTRON MICROSCOPIST

Advanced Materials Processing and Analysis Center | Materials Characterization Facility

The Materials Characterization Facility (MCF, <http://www.ampac.ucf.edu>) of Advanced Materials Processing and Analysis Center (AMPAC) at University of Central Florida is seeking to hire a scientist/engineer to manage and operate its electron microscopes with an emphasis on transmission and scanning electron microscopy. The University of Central Florida is a major metropolitan research university located in Orlando, FL, with over 50,000 students. MCF is a 10,000 sq. ft. multiuser facility with two TEMs, three SEMs, one CrossBeam FIB/SEM, two SIMS, EPMA, FIB, AES, XPS, RBS, MicroRaman, AFM/STM, LSCM, and complete specimen preparation laboratory. The TEM and SEM laboratory currently comprises a JEOL 1011B TEM, FEI Tecnai F30 TEM/STEM, Zeiss ULTRA-55 FESEM, JEOL 6480LV SEM, Hitachi 3500N SEM, and associated sample preparation equipment including Zeiss 1540EsB CrossBeam and FEI 200TEM FIB. MCF is a vibrant multiuser facility that provides microscope and spectroscope facilities to a wide range of users from academia, industry, and national laboratories around the world from all disciplines of science, engineering and technology. Typically on an annual basis, 200 UCF internal users and 30 external users including 20 private companies work at and with MCF for their materials characterization needs.

We are particularly interested in individuals who have a strong record with TEM/STEM for solving scientific and engineering challenges, training students, and operation maintenance. The position will involve management and operation of instruments on a day-to-day basis, support and training of users, instrument maintenance, and instrument development. The applicant should have strong interpersonal as well as oral and written communication skills. We are seeking a TEM/SEM microscopist with a minimum of Master's degree in related sciences/engineering or Bachelor's degree and at least two years appropriate experience. Doctoral degree with a significant expertise and experience in TEM/STEM would be preferred.

Review of candidates will begin immediately, and will continue until the position is filled. Interested candidates should submit an application via <https://www.jobswithucf.com/> for position number, 41482, Coordinator, Research Programs/Services and include a curriculum vita, a summary of expertise and accomplishments and contact information of three references. Applicants are encouraged to submit the same content to Prof. Yongho Sohn, Yongho.Sohn@ucf.edu, Associate Director for MCF, Advanced Materials Processing and Analysis Center, University of Central Florida.

The University of Central Florida is an affirmative action/equal opportunity employer. As a member of the Florida State University System, all application materials and selection procedures are available for public review.



澳門大學
UNIVERSIDADE DE MACAU
UNIVERSITY OF MACAU



Director of Institute of Applied Physics and Materials Engineering

The University of Macau is inviting applications for the position of the **Director of Institute of Applied Physics and Materials Engineering** in the Faculty of Science and Technology.

About the University of Macau

The University of Macau is a leading higher educational institution in Macao and is making strides towards becoming internationally recognized for its excellence in teaching, research and service to the community. The University is growing rapidly with a number of new strategic initiatives, including the relocation to a new campus and the establishment of the largest Residential College system in Asia. The new campus will be 20 times larger than the present one with a projected fast growth of student intake and faculty size. English is the University's working language.

The Institute of Applied Physics and Materials Engineering

The Faculty of Science and Technology is planning to establish a new Institute of Applied Physics and Materials Engineering, initially offering the PhD degrees. Under the aspiration of the University to excel in research, the establishment of the Institute will position the University strategically in the frontier of applied physics and materials research. At its early stage, three focused research areas were identified, i.e., green energy materials, three-dimensional integrated system (e.g., 3D-IC), scattering physics and imaging technology, with additional ones to be added with the appointments of clusters of new academic staff.

The Director of Institute of Applied Physics and Materials Engineering

The successful candidate is expected to provide visionary leadership for establishing the new Institute to a higher level of excellence; to provide strategic directions on the development of new graduate programs; to encourage excellence and innovation in research, teaching and service; to advance professional development of faculty members and students; to promote productive relationships with all constituents including students, alumni, industry and government agencies; to foster productive interdisciplinary relations with a variety of entities across the University.

In particular, the candidate is expected to have the following credentials:

1. A PhD degree in related disciplines;
2. A distinguished record of research and scholarship recognized internationally;
3. Outstanding academic leadership, demonstrated commitment to leading research and a record of effective teaching in the higher education sector;
4. A proven record of curriculum/course development and delivery;
5. Demonstrable administrative and communication competences.

The successful candidate is expected to assume the position in August 2014 or earlier.

Remuneration

Remuneration offered will be highly competitive and commensurate with the successful applicants' academic qualification, current position and professional experience. The current local maximum income tax rate is 12% but is effectively around 5% - 7% after various discretionary exemptions.

Application Procedure

Review of the applications will commence immediately and will continue until the position is filled. Applicants should visit <http://www.umac.mo/vacancy> for more details, and apply **ONLINE** at **Jobs@UM** (<https://isw.umac.mo/recruitment>) (Ref. No.: FST/APME/01/2014). The University has appointed Perrett Laver to assist in the search process for this position. Applicants may consider their applications not successful if they were not invited for an interview within 3 months of application.

Human Resources Office

University of Macau, Av. Padre Tomás Pereira, Taipa, Macau
Website: <https://isw.umac.mo/recruitment>; Email: vacancy@umac.mo
Tel: +853 8397 8593 or +853 8397 8592; Fax: +853 8397 8694

The effective position and salary index are subject to the Personnel Statute of the University of Macau in force. The University of Macau reserves the right not to appoint a candidate. Applicants with less qualification and experience can be offered lower positions under special circumstances.

****Personal data provided by applicants will be kept confidential and used for recruitment purpose only****

*University of Macau -
An ideal place to pursue your career*

<http://www.umac.mo>



Hiring Professors at All Ranks at South University of Science and Technology (SUSTC) Shenzhen, China

The South University of Science and Technology (SUSTC) invites applications and nominations for all ranks of tenured and tenure-track faculty members in the Division of Science, Division of Engineering and Division of Management & Finance.

SUSTC, officially established in April 2012, is a public institution funded by the municipal of Shenzhen, a special economic zone city in southern China. The University is accredited by the Ministry of Education, China and is a pioneer in higher education reform in China. Set on five hundred acres of wooded landscape in the picturesque Nanshan (South Mountain) area, the new campus offers an idyllic environment suitable for learning and scholarship. SUSTC engages in basic and problem-solving research of lasting impact to benefit society and mankind.

The Division of Science, Division of Engineering, and the Division of Management & Finance wish to hire faculty members at all ranks. Key areas include but not limited to: *Neural and Cognitive Sciences, Biology and Gene Engineering, Modern Physics, Control and Modification of Materials, Nanoscience and Nanotechnology, Mathematics and Applied Mathematics, Molecular Chemistry and Catalysis, Large-Scale Computational Research, Robotics and Artificial Intelligence, Information Systems and Electronic Engineering, Modern Cities and Future Developments, Energy Sciences and Technology, Environmental Sciences, Financial Mathematics and Management Sciences.* The Divisions especially encourage research that requires a multi-disciplinary approach. Experienced researchers whose interests do not fall within the above areas are invited to suggest new areas of research. **Cluster hiring is possible, with senior members accompanied by junior members in a group.**

The teaching language at SUSTC is English or Putonghua. The choice is made by the instructor. As we expect an international faculty, the majority of teaching materials and reference books will be in English and many classes will be conducted in English. With a very high faculty-to-student ratio, SUSTC is committed to delivering a student-centered education and encourages students to develop their innovative spirits. Students at junior and senior years are expected to participate in research in the Research Centers.

The University offers competitive salaries, fringe benefits including medical insurance, retirement and housing subsidy. Leading Professors, Chair Professors and Professors will be appointed with tenure. Associate Professors and Assistant Professors will be offered tenure-track contracts.

Please visit our website to apply: <http://talent.sustc.edu.cn/en/>. All applications should include a CV and a detailed list of publications with Research ID. **Those interested in cluster hiring should send CVs and publication lists with Research ID as a group.** Evaluations will commence immediately and appointments will be made on a continuous basis. Additional information on SUSTC is available on the University homepage <http://www.sustc.edu.cn>.

Qualified applicants are also encouraged to apply for the Recruitment Program of Global Expert ("Thousand Talents Program") through SUSTC. Successful applicants will get extra research fund and living allowance from the government. Additional information is available through email inquiry or <http://talent.sustc.edu.cn/>.

If you have any questions, please feel free to contact us at hiring@sustc.edu.cn.

THE U.S. DEPARTMENT OF ENERGY (DOE)
OFFICE OF ENERGY EFFICIENCY AND RENEWABLE
ENERGY (EERE)

SunShot Postdoctoral Research Awards

Solar research opportunities for recent Ph.D. graduates... The SunShot Postdoctoral Research Awards support innovative solar research by offering recent Ph.D. recipients the opportunity to conduct applied R&D at universities, national laboratories, and other research facilities.

Award Highlights:

- Yearly stipend with two years of support
- Research and travel allowance
- Health insurance
- Relocation allowance

Requirements:

- U.S. Citizenship or lawful permanent resident status
- Economics, Social Science, Computer Science, Engineering, Materials Science, Physics, and Chemistry are just a few of the disciplines that may apply
- Have a Ph.D. for no more than five years

Application Deadline: April 30, 2014

For more information and to apply, visit <http://www1.eere.energy.gov/education/postdoctoral>.

This program is administered by the Oak Ridge Institute for Science and Education (<http://orise.orau.gov>) for the DOE EERE. The SunShot Postdoctoral Research Awards are the solar-specific opportunities offered under the EERE Postdoctoral Research Awards program. Please share this information with others at your academic institution/organization.

RESEARCH POSITION

International Center for Young Scientists National Institute for Materials Science (NIMS)

The International Center for Young Scientists (ICYS) of the National Institute for Materials Science (NIMS) is now seeking a few researchers. Successful applicants are expected to pursue innovative research on broad aspects of materials science using most advanced facilities in NIMS (<http://www.nims.go.jp/eng/index.html>).

In the ICYS, we offer a special environment that enables young scientists to work independently based on their own idea and initiatives. All management and scientific discussions will be conducted in English. An annual salary between 5.03 and 5.35 million yen (level of 2013) will be offered depending on qualification and experience. The basic contract term is two years and may be renewed to one additional year depending on the person's performance. A research grant of 2 million yen per year will be supplied to the ICYS researcher.

All applicants must have obtained a PhD degree within the last ten years. Applicants should submit an application form, which can be downloaded from our web site, together with a resume (CV) and a list of publications. A research proposal on an interdisciplinary or integrated area related to the materials science should also be submitted. The application letter should reach the following address via e-mail or air mail by **March 31, 2014**. Visit our website at <http://www.nims.go.jp/icys/> for more details.

ICYS Administrative Office
National Institute for Materials Science
Sengen 1-2-1, Tsukuba, Ibaraki 305-0047, Japan
E-mail: icys-recruit@nims.go.jp




Faculty Position School of Engineering

University of California, Merced

University of California, Merced, School of Engineering: Materials Science and Engineering tenure-track faculty. Assistant Professor. Unique opportunity for one individual to join faculty in the School of Engineering at the new University of California campus. Research focus for this position is Biological/Bio-Materials, broadly defined.

Applicants with PhD degree in Materials Science and Engineering or closely related discipline preferred. To apply, or for more information, please visit our website at <http://jobs.ucmerced.edu/academic/position.jsf?positionId=5090>. Evaluation of applications will begin February 15, 2014.

AA/EOE

TENURE-TRACK ASSISTANT PROFESSOR Materials Science and NanoEngineering

The Department of Materials Science and NanoEngineering in the George R. Brown School of Engineering at Rice University, located in Houston, Texas, invites applications for a tenure-track position at the Assistant Professor level with an anticipated start date of January 1, 2015.

We seek an individual who has demonstrated excellence in one of the following areas in materials science: Computational materials science from ab-initio to continuum methods with possible focus on soft materials and biomaterials, functional ceramics, electrochemistry, magnetic materials, metals and alloys, and nanoengineering. Preference will be given to the overall originality and promise of the candidate's work rather than to the sub-area of research. Exceptional candidates with other expertise will also be considered. A successful candidate will hold a PhD degree, or will have fulfilled the PhD requirements by November 1 of the year employment commences, in a closely related discipline.

Applicants are expected to teach undergraduate and graduate courses. Successful applicants must also have a strong commitment to, and potential for excellence in, teaching, research, and service.


Applications should include a detailed curriculum vita that includes a list of publications, a brief statement of research and teaching interests, and the names of at least four references with references' postal and email addresses, and telephone and fax information. These documents can be uploaded when you apply for this position at <http://msne-facultyapps.rice.edu>.

Candidates from under-represented groups, including women, are encouraged to apply. This position will be kept open until filled but priority will be given to applications received before **March 31, 2014**. The position is at the assistant professor level but exceptional candidates at higher levels may apply. For information about the department, visit our website at www.msne.rice.edu.



RICE

Rice University is an Affirmative Action/Equal Opportunity Employer, committed to excellence through diversity.

FACULTY APPOINTMENTS


Biomimicry Research and Innovation Center

The University of Akron (UA) invites applications for Faculty Appointments at the Full and Associate Professor level to begin in Fall 2014. Exceptional candidates at other levels may be considered. Funded by a new strategic initiative, The University of Akron Biomimicry Research and Innovation Center will hire new faculty from diverse backgrounds in design, art, science, and engineering over the next six years to build the capacity of the center. Each position will have appointments in two departments, determined by their research and teaching interests. Hires for Fall 2014 will be in the areas of 1) **Biomimetic Design** (Job#8171), 2) **Comparative Biomechanics** (Job#8173), and 3) **Soft Materials** (Job#8172). We seek candidates who are interested in working in interdisciplinary research that crosses different departments and disciplines. These first three center hires are expected to play an active role in identifying research areas for subsequent hires. The successful candidates will have a PhD or terminal degree appropriate to their field.

Candidates with expertise and active research/design programs in the emerging area of biomimicry, through work including but not limited to applied mechanics, materials chemistry, soft matter physics, engineering and/or industrial design, and fine arts, are especially encouraged to apply. Applicants are expected to have a proven record of scholarly achievement appropriate for their area as documented by publications, exhibitions, proceedings, design awards, and significant and sustained levels of design/research funding. Applicants who have demonstrated entrepreneurial activities (e.g., patents, successful industrial collaborations, and experience with technology transfer as well as startup companies) are encouraged to apply. The successful applicants are expected to establish and maintain a robust, externally funded, nationally recognized design or research program, direct graduate students, teach graduate and undergraduate classes, and contribute to the functioning of the Biomimicry Research and Innovation Center. For more information about the Biomimicry Research and Innovation Center Initiative at UA, visit <http://UABiomimicry.org>.

For complete details and to apply for this position, visit <http://www.uakron.edu/jobs/>.

EEO/AA



POSTDOCTORAL FELLOWSHIPS | Hopkins Extreme Materials Institute

The newly established Hopkins Extreme Materials Institute (HEMI) at Johns Hopkins University invites applications for two Postdoctoral Fellowships. The first position involves high-rate mechanical testing of metals that will be performed *in situ* within a dynamic TEM at Lawrence Livermore National Laboratory, as well as within conventional TEMs. Ideal candidates will have experience with transmission electron microscopy of metallic materials, TEM sample fabrication, including FIB, and the mechanical properties of metals and alloys. The second position involves *in situ* mechanical testing of metals within an SEM. Ideal candidates will have experience in: SEM, FIB, and micro-scale testing (*in-situ* and/or *ex-situ* techniques) and a strong background in various microstructure characterization techniques. Both are one year positions, renewable depending on performance.

The Hopkins Extreme Materials Institute (www.hemi.jhu.edu) addresses the fundamental science issues associated with materials under extreme conditions. Our emphasis is on the development of the strongest possible science team through structured collaborations with other universities, national laboratories, and industry. Collaborations in the areas described herein are with Caltech, Rutgers University, University of Delaware, and the Army Research Laboratory, as well as joint research programs with UC Santa Barbara, Washington State, Purdue, and Lawrence Livermore National Laboratory.

Successful candidates will have a doctorate in a relevant field and strong communication skills. All applications should be submitted electronically (before **April 15, 2014**) as a single PDF document to ebieluc1@jhu.edu. Electronic applications should include a cover letter describing the principal expertise of the applicant, a statement of research interests and experiences, a complete resume, and the names of at least three references.

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

MULTIPLE FACULTY POSITIONS

Center for Phononics and Thermal Energy Science

Tongji University

The Center for Phononics and Thermal Energy Sciences (CPTES), School of Physics Science and Engineering, Tongji University, Shanghai, China (<http://wphononics.tongji.edu.cn/ptes2013/index.php-classid=2682.shtml>), invites applicants for several faculty positions (all ranks) in the field of Phononics, Thermal Energy Science and Engineering, Material Science and Engineering. Although experimental candidates are preferred, exceptional well-qualified theoretical and computational candidates will be also considered.

CPTES is a newly established institute dedicated to novel and revolutionary approaches in managing and harnessing heat via phononic thermal devices, thermoelectric material/device, and thermal metamaterials, etc. The purpose of the Center is to bridge fundamental research in physics and applications in material and thermal energy engineering.

Candidates should have a PhD degree in a relevant discipline, an outstanding record of original research, the capability to lead an independent research group, and experience in supervising undergraduate and graduate students. CPTES will assist the qualified candidates to apply for the youth 1,000 talent plan and/or 1,000 plan of the central government of China, and/or the 1,000 talent program of Shanghai municipality.

Interested candidates should submit application materials electronically to Mdm. Ding Yunxia at dingyunxia@tongji.edu.cn. Each application should include: a curriculum vitae, the names and addresses of at least three references, three representative publications, and a strategic statement of research interests.

The positions will be open until they are filled. Only the shortlisted candidate will be notified.

