

Materials and Process Integration Scientist/Engineer - 76262 Organization: JCAP

As a Staff Scientist in the Joint Center for Artificial Photosynthesis (JCAP), this position will have major responsibility for materials and process integration to enable scaleup of newly discovered materials and design concepts into working solar fuels prototypes. JCAP is an Energy Innovation Hub funded in 2010 by the Department of Energy (122M, 5 years) with laboratories located at Caltech and LBNL. This will be a senior position in a new team in the Membranes and Mesoscale Assemblies Project. The successful applicant will work across the Hub to transition material systems from the small scale concept stage to fully integrated macroscale prototype devices. The components include new catalysts, semiconductor light absorbers and membranes in a variety of form factors that function together to meet the prototype design specifications. The integration process will offer opportunities for materials and process improvements, and innovations to ensure reproducible and stable operation. The position offers a unique opportunity for an experienced engineer/researcher to assume a key role in the development and demonstration of a scalably manufacturable solar-fuels generator.

Position Qualifications:

- Ph.D. in chemistry, physics or materials science, materials engineering, or related experimental field plus at least 5 years of postdoctoral and professional scientist/engineer experience, or equivalent combination of the aforementioned.
- Demonstrated post-Ph.D. record of accomplishment in materials and process development and integration and/or product development.
- Experience in electrochemically or photochemically driven processes and industrial R&D experience a strong plus.
- Publications in appropriate scientific/technical journals and invention disclosures and patents.
- General knowledge of prototyping methods for electrochemical devices and systems.
- Excellent written and verbal communication skills.
- Demonstrated ability to guide and train technical support staff and work with technical staff, students and postdoctoral fellows of multiple scientific backgrounds.
- Excellent interpersonal skills.
- Experience in developing strong working relationships and collaborating across an organization.

For detailed position descriptions and instructions regarding how to apply, please visit <http://jobs.lbl.gov>
Reference Job Number 76262

Equal Employment Opportunity: Berkeley Lab is an affirmative action/equal opportunity employer committed to the development of a diverse workforce.



FACULTY POSITION Theoretical Chemistry

The Department of Chemistry at the University of Kansas is seeking exceptional candidates for a tenure-track position in Theoretical/Computational Chemistry at the assistant or associate professor level, expected to begin as early as August 18, 2014. The successful candidate will help to realize the Department's goal of enhancing research expertise in the area of materials chemistry, broadly defined, while complementing the existing strengths of the department. The University of Kansas is especially interested in hiring faculty members who can contribute to four key campus-wide strategic initiatives:

- Sustaining the Planet, Powering the World;
- Promoting Well-Being, Finding Cures;
- Harnessing Information, Multiplying Knowledge; and
- Building Communities, Expanding Opportunities.

See www.provost.ku.edu/planning/themes/ for more information. A desire to effectively teach at both the undergraduate and graduate levels is expected and a statement of teaching philosophy and interests is required. A competitive salary will be offered that is commensurate with experience. A PhD degree in chemistry or a closely related field is expected by the start of appointment and postdoctoral experience is desirable.

For a complete announcement and to apply online, go to <https://employment.ku.edu> and click "Search Faculty Jobs" and search openings by keyword "Chemistry." Submit online an application cover letter, CV, contact information for three references, statement of teaching interests, and a description of research plans. In addition, arrange for three letters of recommendation to be sent separately to Elaine Knight, Theory Search Committee Coordinator, Department of Chemistry, Malott Hall, 1251 Wescoe Hall Drive, University of Kansas, Lawrence, KS 66045 (eknight@ku.edu; 785-864-5206). Review of applications will begin October 1, 2013, and will continue as long as needed to identify a qualified pool.

EOE M/F/D/V



Faculty Positions Chemical and Biomolecular Engineering University of Illinois at Urbana-Champaign

The Department of Chemical and Biomolecular Engineering at the University of Illinois at Urbana-Champaign (<http://chbe.illinois.edu/>) invites applications for one or more tenure-track/tenured faculty positions at the Assistant, Associate, and Full Professor level in all research areas, including but not limited to biotechnology, medical, computation, systems, materials, transport, energy, and sustainability.

Please visit <http://go.illinois.edu/CHBEfaculty> to view the complete position announcement and application instructions. For full consideration, applications must be received by **December 1, 2013**.

Illinois is an AA-EOE (www.inclusivellinois.illinois.edu).



Penn Nano Clusters Hiring

The School of Engineering and Applied Science (SEAS) at the University of Pennsylvania seeks to build interdisciplinary faculty clusters of eminence at the forefront of nanotechnology. The newly opened Krishna P. Singh Center for Nanotechnology is a \$100M facility integrating state-of-the-art nanocharacterization and nanofabrication facilities. This second phase seeks numerous hires who will comprehensively span forefront measurement, novel phenomena, innovative devices, and integrated systems. Successful candidates will be expected to couple with existing resources to synergistically build new areas of international impact.



Broad themes of interest include:

- Emerging fields at the interface of nano and biotechnology,
- Advanced nanoprobe pushing the frontiers of multi modal interactions, in-situ control and/or ultra fast dynamics;
- Coupled phenomena providing new paradigms, particularly under extreme environments including ultrafast time scales, ultra-small dimensions and intense energy fluxes;
- Design and fabrication of multifunctional devices that exploit such coupled phenomena for novel applications;
- Integrated systems for application in nano-enabled computation, energy technologies and nanomanufacturing.

Candidates will be expected to robustly utilize and further contribute to the development of experimental capabilities in the Singh Center, as well as to acquire and develop their own innovative experimental platforms. Read more about the Singh Center at <http://www.nano.upenn.edu/>. Candidates will also be expected to advance our creative educational programs at both the undergraduate and graduate level. Applicants with industrial experience or collaborations, and track records that include successful translational research programs and technology transfer are particularly encouraged and should highlight these accomplishments in their application.

Appointments in this second round of hiring will be at the Associate or Full Professor level and applicants must have research and educational track records to merit an appointment with tenure. Successful candidates will be invited to participate in recruiting future faculty at all levels to further contribute to this long-term cluster hiring initiative, which builds on

Penn's exemplary record in interdisciplinary research that integrates knowledge at the forefront of discovery.

Applicants should submit their applications electronically at <http://www.nano.upenn.edu/about/hiring-initiative/>

Information about the School of Engineering and Applied Sciences is available at <http://www.seas.upenn.edu/>.

The University of Pennsylvania values diversity and seeks talented students, faculty and staff from diverse backgrounds and does not discriminate on the basis of race, color, sex, sexual orientation, gender identity, religion, creed, national or ethnic origin, citizenship status, age, disability, veteran status or any other legally protected class status in its employment practices.

UT D

POSTDOCTORAL POSITION

Department of Physics

University of Texas at Dallas

A postdoctoral position in ultrafast spectroscopy and electrical measurements of nanomaterial-based photovoltaic devices is available at the University of Texas at Dallas (with Chabal and Malko) in a DOE-funded project studying energy transfer interactions between colloidal nanocrystals and silicon substrates. A PhD degree in physics or physical chemistry is required. Experience in modern time-resolved optical techniques (femtosecond pump-probe/TCSPC-based photoluminescence) and instrumentation programming (Labview) or in measurements of weak time-resolved photocurrents is important.

Send CV and two letters of recommendations to Prof. Anton Malko at anton.malko@utdallas.edu. Position available immediately. More information is available at www.utdallas.edu/~avm074000.

A/AEOE Employer



Staff Scientist Positions

Center for Integrated Computational Materials Science
Shanghai Institute of Ceramics, Chinese Academy of Sciences

The newly established Center for Integrated Computational Materials Science within The Shanghai Institute of Ceramics, Chinese Academy of Sciences (SICCAS, see <http://www.sic.ac.cn>) is looking to fill several junior/senior staff scientist positions in the areas of electronic/atomistic structure calculations using first-principles calculations and molecular dynamics simulations; phase-field simulations of microstructure evolution at micro- and meso- scale and its effect on materials performance; and multiscale modeling of thermal-mechanical and/or thermal-mechanical-electrochemical coupling effects on material integrity in complex systems.

Successful applicants are expected to work closely with SICCAS experimental groups as well as with several advisory senior scientists in computational materials science in China and abroad. They will be provided with a competitive start-up package, including start-up funds, lab space, and other benefits commensurate with the qualifications of the candidates. For outstanding candidates, SICCAS will assist the application of national talent plan including "Qian-ren Talents," "Youth Qian-ren Talents," and CAS-level or SICCAS-level "Hundred-talent Program."

Applications for PhD graduate student and postdoctoral positions are also welcome. Interested individuals should send a detailed CV, a list of 5-10 representative publications, and a research statement together with a cover letter to:

Ms. Wei Shen and/or Prof. W. Zhang
Shanghai Institute of Ceramics, Chinese Academy of Sciences
1295 Dingxi Road, Shanghai 200050, CHINA
Email: shenwei@mail.sic.ac.cn; wqzhang@mail.sic.ac.cn
Phone: 86-21-5241-4822





Faculty Positions Thermal Energy Systems Arizona State University

The Ira A. Fulton Schools of Engineering at Arizona State University seek applicants for tenure-track/tenured faculty positions in Thermal Energy Systems to grow our efforts in the important thrust area of Energy. Areas of application interest include but are not limited to hybrid/multifunctional systems that combine thermal and non-thermal processes; innovative thermal energy conversion/storage materials and/or systems; thermochemical processes; thermal management/control; novel cooling technologies; and materials & transport in extreme environments. The originality and promise of each candidate's work are higher priorities than the specific area of research.

We seek applicants who will contribute to our programs and will leverage investments by the University in promoting interdisciplinary teaching and research. These investments include, among others, LightWorks (<http://asulightworks.com>), the Biodesign Institute (<http://biodesign.asu.edu>), the Security and Defense Systems Initiative (<http://sdsi.asu.edu>), and the Global Institute of Sustainability (<http://sustainability.asu.edu>). The current openings are intended to broaden our expertise and expand collaborations.

The successful candidates will hold an earned PhD degree, or equivalent, in Mechanical Engineering, Materials Science and Engineering, Chemical Engineering, or a closely related field. Required qualifications also include demonstrated evidence of research capability and commitment to teaching excellence as appropriate to the candidate's rank. Desired qualifications include a commitment to transdisciplinary teaming.

Faculty members are expected to develop an internationally recognized and externally funded research program, develop and teach graduate and undergraduate courses, advise and mentor graduate and undergraduate students, and undertake service activities.

Appointments will be at the assistant, associate, or full professor rank commensurate with the candidate's experience and accomplishments, beginning August 2014. Although the faculty appointment may be in any of the Fulton Schools of Engineering, the Mechanical Engineering, Materials Science and Engineering, and Chemical Engineering programs are currently among the most involved in the interest areas of the search.

Review of applications will begin **December 2, 2013**; if not filled, reviews will occur on the 1st and 15th of the month thereafter until the search is closed. To apply, please submit as a single PDF file a cover letter, current CV, statements describing research and teaching interests, and contact information for three references to thermal.faculty@asu.edu.

For more information or questions about this position, please contact the search committee chair Prof. Peter Crozier via email at crozier@asu.edu.

Arizona State University is an equal opportunity/affirmative action employer. Women and minorities are encouraged to apply. See ASU's complete non-discrimination statement at <https://www.asu.edu/titleIX/>.



Sandia National Laboratories

Post Doc Research Associate Photovoltaic Materials, Interfaces & Devices

Sandia National Laboratories is currently seeking a **Post Doc Research Associate** for the Nanoscale Sciences Department located in our **Albuquerque, NM** facility. The Postdoctoral Research Associate will conduct experiments investigating the structural, chemical, and electronic and device properties of novel organic, inorganic, and hybrid photovoltaic materials. Materials may include thin films, nanoparticles, and nanosheets of polymers, organic small molecules, and transition metal chalcogenides and oxides. He or she will work independently and collaboratively with Sandia NM/CA staff and external scientists to understand the structure-property-performance relationships of these new materials, and to apply this knowledge to the design and fabrication of photovoltaic devices with optimized or novel functionality. Primary research activities will include: thin film deposition, nanostructuring, self-assembly, and processing; photovoltaic and transistor device fabrication; and electro-optical characterization and modeling of materials and devices (e.g., optical spectroscopy, quantum efficiency, solar simulation measurements, current-voltage, capacitance-voltage, and impedance spectroscopy).

Required

This position requires a Ph.D. (granted within the last 5 years) in Physics, Materials Science, Electrical Engineering, or related discipline; Record of strong academic performance with undergraduate (GPA 3.2/4.0) and graduate (GPA 3.5/4.0); Ability to work independently, while integrating effectively into a multidisciplinary team environment; Extensive relevant hands-on laboratory experience and safe laboratory practices, including: (1) Vacuum and solution based thin film deposition methods, and (2) Thin film semiconductor device fabrication, characterization, and modeling.

To learn more about this position and to apply online, please visit our Careers page at <http://www.sandia.gov/careers/search-openings.html> and reference Job Opening ID Number: **644118**.

U.S. Citizenship Normally Required.
Equal Opportunity Employer. M/F/D/V.



JEFFERSON SCIENCE FELLOWSHIP



The National Academies is pleased to announce a call for nominations and applications for the **2014 Jefferson Science Fellows Program**. Initiated by the Secretary of State in 2003, this fellowship program engages the American academic science, technology, engineering, and medical communities in the design and implementation of U.S. foreign policy.

Jefferson Science Fellows (JSF) spend one year at the U.S. Department of State or the U.S. Agency for International Development (USAID) for an on-site assignment in Washington, DC that may also involve extended stays at U.S. foreign embassies and/or missions.

The fellowship is open to tenured, or similarly ranked, academic scientists, engineers, and physicians from U.S. institutions of higher learning. Nominees/applicants must hold U.S. citizenship and will be required to obtain a security clearance.

The deadline for 2014-2015 program year applications/nominations is **January 13, 2014**. To learn more about the Jefferson Science Fellowship and to apply, visit the JSF website at www.nas.edu/jsf.

The JSF program is administered by the National Academies and supported by the U.S. Department of State and USAID.

THE NATIONAL ACADEMIES

Advisers to the Nation on Science, Engineering, and Medicine

ASSISTANT/ASSOCIATE/FULL PROFESSORS

School of Mechanical and Materials Engineering

The School of Mechanical and Materials Engineering (MME) at Washington State University (WSU), Pullman, WA, invites applications for multiple full-time tenure-track or tenured faculty positions in the Mechanical Engineering (ME) or Materials Science & Engineering (MSE) programs. The successful candidate will be expected to teach undergraduate and graduate courses in ME or MSE, mentor diverse students, develop collaborative research, establish an externally funded research program, and publish scholarly work. Applications will be considered for positions at all ranks commensurate with qualifications.

The school welcomes strong candidates who can complement and collaborate with existing research programs in the School, the College of Engineering & Architecture, and industries in Washington including aerospace, advanced manufacturing and materials, and renewable energy. Candidates with strong research and teaching interests in (a) advanced manufacturing processes, (b) aerospace dynamics and control, (c) renewable and clean energy, (d) advanced materials, (e) infrastructure materials, or (f) sustainable design, are particularly encouraged to apply.

The School of MME has 27 tenured or tenure-track faculty members, including nine fellows of professional societies, 1,000 undergraduate students, and 150 graduate students. The city of Pullman, nestled in the rolling wheat fields of southeastern Washington, offers small town charm, low crime, and Pac-12 athletics. It was named by Bloomberg Businessweek as the best place to raise your kids in Washington.

Qualifications:

- Earned doctoral degree in Mechanical or Materials Engineering or a closely related field prior to the start of the appointment.
- Demonstrated record of scholarly work and potential to establish a robust research program.
- Demonstrated excellent verbal and written communication skills, and commitment to collaborate with diverse internal and external groups.

Application:

The Search Committee will accept applications until the positions are filled, with candidate screening beginning **November 1, 2013**. It is anticipated that the successful candidate will begin the appointment on or before August 16, 2014. An application should include:

- a cover letter indicating field of interest including research and teaching,
- a curriculum vitae,
- a statement of research plans (2 pages),
- a statement of teaching experience and interests (2 pages),
- and contact information for four references.

The application must be submitted online at www.mme.wsu.edu/vacancies.

WSU is an EO/AA Educator and Employer. For additional information on Washington State University and MME, visit www.mme.wsu.edu.



World Class. Face to Face.



FACULTY POSITION

Department of Chemical Engineering and Materials Science

University of Minnesota

The Department of Chemical Engineering and Materials Science at the University of Minnesota (www.cems.umn.edu) seeks to fill a faculty position at the Assistant (tenure-track), Associate, or Full Professor level, commensurate with experience. Outstanding candidates with a PhD degree in any area related to chemical engineering and materials science will be considered. Candidates should have a distinguished academic and research record and a commitment to teaching in a highly interdisciplinary department.

Applications, consisting 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), should be submitted on-line at <https://employment.umn.edu>. Search for **requisition number 186204**. Review of the applications will begin immediately and continue until the position is filled. The successful candidate will be in place as early as Fall 2014.

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



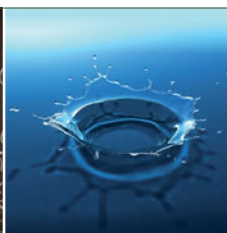
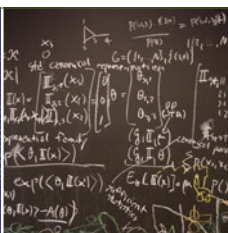
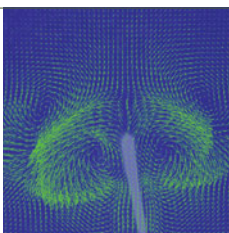
Honda Research Institute USA

VISITING SCIENTIST

Laboratory of Materials Science

The Laboratory of Material Science at Honda Research Institute USA, Inc., located in Columbus, OH, seeks qualified candidate for a visiting scientist position to begin from January, 2014. This is a limited 2-year position with the possibility of further extensions at the company's discretion. Areas of interest include controllable synthesis of nanoscale metal particles and related nanoscale characterization techniques. Knowledge in synthesis of carbon nanostructures (CNT, graphene) is preferable. Applicants must possess a PhD degree in a relevant field of materials science, physics, chemistry, and have had postdoctoral experience. Candidates must have the legal right to work for Honda Research Institute in the U.S.A.

Applicants should forward CV, a list of publications, one-page statement of previous research studies and contact information for three references by e-mail to career2013@honda-ri.com. Please refer to **job number P12T01** in subject line.



CALL FOR Professors and Assistant Professors

IST Austria invites applications for **tenured** and **tenure-track leaders of independent research groups** in following fields: **Physics | Chemistry | Biology | Neuroscience | Earth Science | Mathematics | Computer Science | Interdisciplinary Areas**

The Institute is dedicated to basic research and graduate education in the natural and formal sciences. The successful candidates will receive a substantial annual research budget, are expected to apply for external research grants and to participate in the Graduate School.

Deadline for receiving Assistant Professor applications: November 15, 2013

Open call for Professor applications

Further information and online application: www.ist.ac.at/professor-applications

IST Austria values diversity and is committed to equality. Female researchers are encouraged to apply.



Tenure-Track Faculty Position Department of Chemistry

The Department of Chemistry at the University of Pennsylvania plans to make a tenure-track appointment in chemistry at the Assistant Professor level. The appointment will be in the broadly defined area of Inorganic Chemistry. The candidate is expected to establish an externally funded research program and participate in the Department's undergraduate and graduate teaching mission.

Applicants must apply online at <http://facultysearches.provost.upenn.edu/postings/29>. Required application materials include: curriculum vitae including a list of publications, and a description of proposed research. Applicants should also submit the names and contact information of three individuals who will provide letters of recommendation. Review of applications will begin on October 14, 2013 and will continue until the position is filled.

The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer and is strongly committed to establishing a diverse faculty: <http://www.upenn.edu/almanac/volumes/v58/n02/diversityplan.html>



PRIZE POSTDOCTORAL FELLOWSHIP IN SUSTAINABILITY SCIENCE at Caltech's Resnick Sustainability Institute

The Resnick Sustainability Institute Prize Postdoctoral Fellowships were created to engage outstanding recent graduates in projects that explore new directions in sustainability focused scientific research at Caltech.

Resnick Fellows will have support for up to two years to work on creative, cross-catalytic research that complements the existing work of the Caltech faculty in sustainability science, or that creates new research directions within the mission areas of the Resnick Sustainability Institute.

Application Documents: (a) A cover letter with a short summary of past work and current research plans; (b) Research plan outlining proposed work (maximum 5 pages, references counted separately); (c) 3 letters of recommendation, one of which must be from the sponsoring Caltech faculty member (d) CV including list of publications

Deadline: Monday, November 18, 2013; 5PM PST

For more information visit
<http://resnick.caltech.edu/fellowships.php>

To apply visit
<https://applications.caltech.edu/job/rpd>



STRATEGIC FACULTY RECRUITMENT IN ENERGY & MATERIALS

Florida State University is continuing its **major interdisciplinary initiative in the areas of Energy & Materials**. During the 2013-14 academic year the University will be recruiting as many as nine tenure-track/tenured faculty members to supplement the three faculty hired last year in these areas. This search is open with respect to rank and academic department. Successful candidates are expected to have a synergistic impact on existing research programs in the University's departments and interdisciplinary centers as well as develop new areas. Sustained pursuit and growth of collaborative, externally-funded research programs is an explicit goal.

We invite applications from researchers active in the broadly-defined area of materials science and materials engineering with an emphasis on, but not restricted to, materials for energy production, conversion, storage, and utilization. Target research areas in this search encompass theory, computation, synthesis including molecular, macromolecular and inorganic, thin films and crystals, biomaterials, fundamental characterization, materials measurement, device construction, and proof of concept testing and prototyping. Successful candidates will be offered highly competitive salaries and start-up packages, state-of-the-art research space, and access to world-class instrumentation, computing, and facilities in academic and interdisciplinary units.

Related strengths at Florida State University include programs in Biological Science, Chemistry & Biochemistry, Physics, and Scientific Computing in the College of Arts & Sciences, and in Chemical & Biomedical, Electrical & Computer, Industrial & Manufacturing, and Mechanical Engineering in the College of Engineering. Complementing these programs are interactive centers including the National High Magnetic Field Laboratory, the Applied Superconductivity Center, the High Performance Materials Institute, the Aero-Propulsion, Mechatronics & Energy Center, and the Center for Advanced Power Systems. Linking these colleges and centers is a new PhD program in Materials Science & Engineering complementing robust department-based doctoral programs in materials and related areas.

Florida State University is classified as a very high research activity, doctorate-granting institution with a student population approaching 42,000. In recent years, the University has made considerable investments in research infrastructure in the sciences and engineering disciplines. The University is located in Tallahassee, the capital of Florida, where residents have access to a broad range of cultural amenities afforded by the presence of three institutions of higher learning. The region boasts an abundance of springs, lakes, and rivers as well as pristine beaches on the Gulf of Mexico.

Applicants are asked to provide **a single document** in pdf format containing a letter of application including the names and contact information of three professional references, curriculum vitae, and a two-page narrative describing their research interests that should include a clear statement as to how the candidate would complement this inter-college effort at Florida State University. Applications must be sent electronically to materials2013.search@fsu.edu. Review of applications will begin on **November 1, 2013**. Additional information about the related programs at FSU and this faculty search can be obtained at http://www.research.fsu.edu/materials_search/.

Florida State University is committed to the diversity of its faculty, staff, and students, and to sustaining a work and learning environment that is inclusive. Women, minorities, and people with disabilities are strongly encouraged to apply. FSU is an Equal Opportunity/Access/Affirmative Action Employer.



Research Faculty Position

The NanoScience Technology Center

The NanoScience Technology Center (NSTC) at the University of Central Florida (UCF) in Orlando invites applications for a non-tenure track Research faculty position in the area of nanosciences with emphasis on scalable nanomanufacturing and prototype fabrication, nanoelectronics, nano environmental health and safety, nano-biotechnology, or other cutting edge nanotechnology fields. A suitable candidate must have a PhD degree from an accredited institution in a related discipline.

The search will be conducted jointly by the NSTC and the Advanced Materials Processing and Analysis Center, which together consist of 28 faculty (10 NSF CAREER, ONR YIA, DARPA YIA), and over 120 graduate students, Post-Docs, and staff. Competitive packages are available, and collaboration with researchers in academic departments, schools, and centers, including College of Medicine, Center for Research and Education in Optics and Lasers (CREOL), Florida Solar Energy Center (FSEC), and Burnett School of Biomedical Sciences is encouraged. There are plenty of collaboration opportunities with other institutes and research centers located within a few miles from the UCF campus, including Siemens Energy, Lockheed Martin, Florida Hospital, Sanford-Burnham Medical Research Institute, Nemours Children Hospital, VA, and MD Anderson Cancer Center. UCF has over 60,000 students and is a comprehensive research and education institute.

Candidates should apply before **October 17, 2013**. The online application can be found at <http://www.nanoscience.ucf.edu/news/jobs.php> and requires a CV, research plans, and list of three professional references. For questions please contact NSTCsearch@ucf.edu. Only online applications will be considered.

This position is funded by contracts and grants and is contingent upon available funding.

UCF is an Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply. As an agency of the State of Florida, UCF makes all application materials, including transcripts, and selection procedures available for public review upon request.



Postdoctoral Research Associate (Position Code 50420578)

Atomic Force Microscopy

The Chemical Sciences Division at Oak Ridge National Laboratory (ORNL) currently has a postdoctoral position available for an analytical/materials scientist with expertise in fundamental studies and applications of atomic force microscopy-based chemical imaging. The goal of the research project is to exceed the existing analytical capability for nanometer scale spatially resolved material characterization at interfaces under ambient conditions through a merger of advanced spectroscopic and ultrafast time-resolved imaging, scanning probe microscopy, and mass spectrometry. The project is multifaceted and involves several individuals at ORNL including mass spectrometrists, optical spectroscopists, as well as scanning probe and computational modeling experts.

Under general supervision, the Postdoctoral Research Associate will conduct research specifically on atmospheric pressure atomic force microscopy chemical imaging utilizing optical spectroscopy and liquid extraction probe-based chemical imaging of surfaces.

Major Duties/Responsibilities:

- Participate in project planning, lead laboratory experimentation, and provide initial data analysis
- Modify atomic force microscopy instrumentation as necessary to carry out the required studies/measurements
- Responsible for presenting and reporting research results and publishing scientific results in peer-reviewed journals in a timely manner
- Ensure compliance with environment, safety, health, and quality program requirements
- Maintain strong commitment to the implementation and perpetuation of values and ethics

Qualifications Required:

The incumbent will possess a PhD degree in Chemistry, Physics, Materials

Science, or a closely related science discipline, must have completed all degree requirements before starting their appointment, and be within five years of receiving their Doctorate. Possession of a strong record of productive and creative research demonstrated by publications in peer-reviewed journals and presentations at scientific conferences are required. Must possess demonstrated expertise in atomic force microscopy principles, instrumentation operation, and, in particular, skill and experience with instrumentation hardware modifications. Demonstrated skill in scanning near-field optical spectroscopy, tip-enhanced Raman spectroscopy, or with liquid delivery/retrieval probes is required. Excellent interpersonal skills and oral and written communication skills are mandatory. The abilities to be a self-starter, to work independently, and be willing to participate creatively in a collaborative team effort are required.

Qualifications Required:

Experience with atmospheric pressure ionization techniques like electrospray ionization or atmospheric pressure chemical ionization and the associated mass spectrometry instrumentation and methods is a plus.

This position is for one year with the option to renew term annually for a maximum of two years.

Work Direction and Interfaces:

Position reports to the Group Leader of the Organic and Biological Mass Spectrometry Group in the Chemical Sciences Division. Interface with administrative staff, managers, and visitors to ORNL.

Measures of Effectiveness:

Extract from annual performance measures.

To Apply:

To apply, go to <http://www.ornl.gov/ornl/careers>.



Equal Opportunity Employer

Assistant Professor

Materials Department
University of California, Santa Barbara

The Materials Department in the College of Engineering at the University of California, Santa Barbara is seeking applications for an Assistant Professor position (tenure-track) in Inorganic Materials. Exceptional candidates will also be considered at the Associate Professor level.

Candidates should demonstrate the potential to build up a cutting-edge, experimental research program in the areas of development and materials physics of functional materials. We particularly encourage applications from candidates with expertise in one of the following areas: materials for energy; emergent, magnetic, and correlated materials; novel semiconductors, electronic, or photonic materials; and functional ceramics.

Applications consisting of a résumé, brief statements of teaching philosophy and research interests (2-page-limit each), and the names and addresses of at least three references, should be submitted online at <https://recruit.ap.ucsb.edu/apply/JPF00224>. Please apply by **November 15, 2013** for primary consideration; however, the position will remain open until filled.

The Materials Department is especially interested in candidates who can contribute to the diversity and excellence of the academic community through research, teaching, and service.

EO/AA Employer

Assistant Professorship

Chemical Sciences

The School of Arts and Sciences at the University of Pennsylvania invites applications for a tenure-track assistant professorship in the chemical sciences. This appointment will be the first in a cluster of three hires across the natural sciences focused on energy science. The successful candidate will mount an innovative program of fundamental scientific research geared toward solving societal energy challenges. The successful candidate will also forge collaborative links with Penn scientists and engineers involved in energy research and participate actively in the future recruitments as the cluster hire initiative progresses. It is anticipated that some of the candidate's teaching will be of broad interest to students beyond chemistry in another of the natural sciences (Biology, Physics, and/or Earth and Environmental Science).

Applicants must apply online at <http://facultysearches.provost.upenn.edu/postings/28>. Required application materials include: curriculum vitae including a list of publications, and a description of proposed research. Applicants should also submit the names and contact information of three individuals who will provide letters of recommendation. Review of applications will begin on October 14, 2013 and will continue until the position is filled.

The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer and is strongly committed to establishing a diverse faculty: <http://www.upenn.edu/almanac/volumes/v58/n02/diversityplan.html>



Faculty Position | Experimental Condensed Matter Physics

The University of New Hampshire invites applications for a tenure-track faculty position in Experimental Condensed Matter Physics in the Department of Physics and the Materials Science Program beginning in August 2014. This position represents one of several to be filled in support of a multidisciplinary center for flexible electronics. Areas of particular interest include quantum phenomena in low-dimensional systems and devices.

Candidates will be evaluated on (i) their academic credentials; (ii) their research record; (iii) their commitment to teaching at the undergraduate and graduate level; and (iv) their potential for meeting the UNH goal of creating an educational environment that fosters diversity, inclusion, and quality engagement for all. Successful candidates are expected to develop an internationally-recognized and externally-funded research program within the condensed matter physics group and the interdisciplinary Materials Science Program.

Applicants should send a cover letter that addresses the expected rank of appointment and discusses how their research will support a multidisciplinary research effort in flexible electronics. Please submit your application as a single PDF document in the following order—cover letter, curriculum vitae, research plans (4 page max.) and teaching statement—to physics.search@unh.edu and arrange for three letters of recommendation to be sent to the same address. Review of complete applications will commence on **November 11, 2013**. For a more comprehensive job description, visit <http://jobs.usnh.edu>.

The University of New Hampshire is an Equal Opportunity/Equal Access/Affirmative Action institution. The University seeks excellence through diversity among its administrators, faculty, staff, and students. The university prohibits discrimination on the basis of race, color, religion, sex, age, national origin, sexual orientation, gender identity or expression, disability, veteran status, or marital status. Application by members of all underrepresented groups is encouraged.



Tenure-Track/Tenured Faculty Position Aerospace Engineering


The Department of Mechanical and Aerospace Engineering at Rutgers University invites applications and nominations for a tenure-track/tenured aerospace engineering faculty position at the level of Assistant, Associate, or Full Professor beginning in January 2014. Candidates with expertise in **Aerospace Engineering and Systems**, including flight mechanics, aerospace vehicles, automated optimal design in aerospace systems, experimental diagnostics in high speed flows, satellite dynamics and control, unmanned aerial systems including micro- nano- air vehicles and morphing aerodynamics, aircraft and helicopter structures, air breathing propulsion, space propulsion, space structures, space robotics, spacecraft controls, and dynamics, are highly encouraged to apply.

Candidates should demonstrate a capacity to develop a nationally recognized and externally funded scholarly research program. Excellence in teaching in Mechanical and Aerospace Engineering undergraduate and graduate programs is required. The candidate will be expected to develop both undergraduate and graduate level courses in aerospace engineering, and must hold an earned doctorate in Aerospace Engineering or a closely related field.

The Mechanical and Aerospace Engineering (MAE) Department has 28 full-time faculty with more than 600 undergraduate students and 170 graduate students. The MAE Department is one of seven within the School of Engineering at Rutgers-New Brunswick, a culturally and academically diverse environment with more than 4,000 full-time faculty, 6,000 graduate students and 41,000 undergraduate students.

Please submit your application at <http://apply.interfolio.com/22403>. Applications should include a detailed resume including the name and contact information of at least three references, and a statement of research and teaching interests. Applications will be reviewed until the position is filled. Questions concerning the position may be sent to maefsearch@jove.rutgers.edu.

Rutgers University is an equal opportunity/affirmative action/Title IX employer. All persons are invited to apply regardless of race, color, gender, national origin, religion, disability, or sexual orientation.



Postdoctoral Research Associate

In-Situ Electron Microscopy (16408/6486)

The Electron Microscopy group at the Center for Functional Nanomaterials at Brookhaven National Laboratory has an immediate opening for a Postdoctoral Research Associate in the area of *in-situ* electron microscopy. The successful candidate will work on the development and fabrication of a liquid cell for *in-situ* microscopy in wet environments (i.e., liquids, solutions, colloidal suspensions), which he/she will utilize to investigate energy-relevant materials and processes; e.g., understanding the solution synthesis of nanoparticles, nanowires, and of complex heterostructures relevant for catalysis. The resulting observations will be used to provide fundamental insights into nucleation and growth mechanism in these systems.

This position requires a PhD degree in physics, chemistry, materials science, or a related field, as well as experience in transmission electron microscopy (TEM), including instrument operation and independent data acquisition and analysis. Previous experience in *in-situ* electron microscopy will be a plus. Under the direction of Eli Sutter.

Lab policy states that research associate appointments may be made to individuals who have received their doctorate within the past five years. To apply, please visit www.bnl.gov/HR/Careers/, select "Search Job List," and submit an application to **Job ID#16408**.

BNL is an Affirmative Action/Equal Opportunity Employer committed to the development of a diverse workforce.



PROGRAM DIRECTORS

Division of Materials Research

National Science Foundation



The Division of Materials Research (DMR) at the National Science Foundation, Arlington, VA, announces a nationwide search for senior-level researchers to serve as **Program Directors in the Biomaterials, Condensed Matter and Materials Theory, Condensed Matter Physics, and Metals and Metallic Nanostructures Programs**. Formal consideration of interested applications will begin September 30, 2013 and will continue until selections are made.

The **Biomaterials position** requires an individual with broad expertise and demonstrated experience in materials research related to materials of biological origin, synthetic materials intended for applications in biological systems, materials that mimic or are inspired by biological materials, and the processes through which biological materials are produced in nature. Additional expertise in interdisciplinary research areas at the interface between the biological/life and the materials/physical sciences is also desired. Applicants must have a PhD degree or equivalent experience in the chemical, materials, or physical sciences or a closely-related field plus after the award of the PhD, six or more years of successful research, research administration, and/or managerial experience pertinent to the position.

The **Condensed Matter and Materials Theory position** requires an individual with broad expertise and demonstrated experience in theoretical and computational materials research, particularly in soft matter. The Condensed Matter Physics position requires an individual with broad expertise and demonstrated experience in the fundamental physics behind phenomena exhibited by condensed matter systems. Applicants must have a PhD degree or equivalent experience in the physical sciences or a closely-related field, plus after the award of the PhD, six or more years of successful research, research administration and/or managerial experience pertinent to the position.

The **Metals and Metallic Nanostructures position** requires an individual with broad expertise and demonstrated experience in understanding structure-property relationships in metallic materials from the atomic to nano- and micro-structural to bulk length scales, and also in their synthesis, processing, and characterization for desired physical, mechanical, and functional properties. Applicants must have a PhD degree or equivalent experience in the physical sciences, engineering, or a closely-related field, plus after the award of the PhD, six or more years of successful research, research administration and/or managerial experience pertinent to the position.

For the DMR mission statement and additional information about the above programs, please see www.nsf.gov/materials.

Applicants must be familiar with a broad spectrum of the materials research community, as well as with the issues being addressed in the field. Applicants with accomplishments in the integration of

research and education and with multidisciplinary experience and interest are desired. The position requires effective oral and written communication skills, and familiarity with NSF programs and activities is highly desirable. The incumbent is expected to work effectively both as an individual within the specific NSF program and as a member of crosscutting and interactive teams. The incumbent must also demonstrate a capability to work across government agencies to promote NSF activities and to leverage program funds through interagency collaborations.

How to Apply: Applicants should indicate which program they are applying to within their cover letter and subject line of the email. Please submit a curriculum vitae to dmr-recruit@nsf.gov. Applications are first reviewed by the recruitment working group (typically composed of three to five Program Directors) and recommendations are made to DMR's Division Director and Deputy Division Director. A few candidates are selected for telephone and/or NSF on-site interviews. Applicants will receive an acknowledgement of their applications and a status update by email when selections occur. For more information about these openings, you may send an inquiry to dmr-recruit@nsf.gov or contact the Deputy Division Director, Janice Hicks, by telephone at 703-292-4956 or via e-mail at jhicks@nsf.gov.

Nominations from the community are also encouraged. A nomination email can be sent to dmr-recruit@nsf.gov.

Because NSF has a rotator program, there are often opportunities in diverse areas of materials research. Those interested are welcome to request further information from dmr-recruit@nsf.gov.

The position may be filled on a non-permanent basis for one to three years as a Visiting Scientist, on a temporary basis as a federal employee, or under the provisions of the Intergovernmental Personnel Act (IPA).

For additional information on NSF's rotational programs, please visit http://www.nsf.gov/about/career_opps/rotators/.

Applications will be accepted from US Citizens. Due to a recent change in Federal Appropriations Law, only Non-Citizens who are permanent US residents and actively seeking citizenship can be considered for Federal appointments (i.e., Visiting Scientists, Engineers and Educators (VSEE) program, Temporary Excepted Service). Therefore, you are required to provide documentation that confirms you are actively seeking citizenship at the time you submit your application. Non-citizens who do not provide documentation will be considered only for the IPA program.

NSF is an Equal Opportunity Employer committed to employing a highly qualified staff that reflects the diversity of our nation.



FACULTY POSITION | Division of Materials Science and Engineering

The Division of Materials Science and Engineering (MSE) at Boston University (BU) anticipates an opening for a faculty position in the area of theoretical digital design of materials at the tenure-track, assistant professor level. The ideal candidate would work in an interdisciplinary way with synthetic chemists and growth/fabrication researchers, computational scientists, and experimentalists, to create a new type of materials science where one predicts, grows, measures, and then uses the comparison between the theoretical prediction and experiment to refine the process until a material with desired properties is realized. The ultimate goal is a paradigm shift from the labor-intensive trial and error approach to material fabrication practiced today to a more efficient integrated rational design path to the creation of new science and novel materials. Candidates with research interests that transcend the traditional boundaries of MSE are strongly encouraged to apply. The successful candidate will have a primary appointment in one of the departments in the BU College of Engineering and a secondary appointment in the MSE. Joint appointments with other BU departments and the Division of Systems Engineering are available for candidates with appropriate experience and interests.

Qualified candidates must possess a relevant, earned PhD, and have a demonstrable ability to teach effectively and contribute to the graduate program in MSE, develop funded research programs in their area of expertise, and contribute to the tradition of excellence in research that is characteristic of the MSE field at Boston University. Self-motivated individuals who thrive on challenge and are eager to utilize their expertise to strengthen an ambitious program of divisional enhancement are desired. Women, minorities, and candidates from other underrepresented groups are especially encouraged to apply.

MSE at BU is a world-class division with excellent resources that is steadily gaining national and international prominence for its exceptional research and education record. MSE is part of BU's rapidly growing and innovative College of Engineering. The College of Engineering is comprised of three departments (Biomedical, Electrical & Computer, and Mechanical) and two graduate divisions (Systems, Materials Science & Engineering) consisting of 120 faculty, 75 staff, 1350 undergraduates, and 700 graduate students. The College of Engineering has risen rapidly in distinction over the past decade and is currently ranked 38th and in the top 20 in research dollars per faculty member. Significant investments in the MSE area by the College and University have been recently made and will continue. Outstanding collaboration opportunities are available with nationally recognized medical centers and universities/colleges, nearby research centers, and industry throughout the Boston area.

Beyond its research and academic activities, BU has a lively, urban campus situated along the banks of the Charles River in Boston's historic Fenway-Kenmore neighborhood. The campus and surrounding areas offer limitless opportunities for recreational activities, from world-class art and performances to sporting events and fine dining.

Please visit <http://www.bu.edu/MSE> for more information about the MSE Division. To apply, please visit and follow application instructions online at <https://academicjobsonline.org/ajo/jobs/3031>. Applications will be accepted until the position is filled, but preferred deadline for full consideration is **December 31, 2013**. Applicants are encouraged to apply early.

Boston University is an Equal Opportunity/Affirmative Action Employer.



UC DAVIS
UNIVERSITY OF CALIFORNIA

Department Chair

Department of Chemical Engineering and Materials Science

The Department of Chemical Engineering and Materials Science at the University of California, Davis, is seeking applications and nominations for the position of Department Chair. This is a senior level leadership position intended for candidates with a strong record of research and professional accomplishments, leadership ability, dedication to education, and commitment to faculty governance. The Department covers broad areas in Chemical Engineering and Materials Science and Engineering, both in teaching and research. Candidates able to synergistically build both programs will be given preference.

The successful candidate should also be eligible for appointment at professor level. A PhD degree in engineering or related fields is required. All applications received by **November 30, 2013** will be considered. Application may be made online at <https://recruit.ucdavis.edu/apply/JPF00108>. The position remains open until filled. Additional information on the department can be found at <http://chms.engineering.ucdavis.edu/>.

UC Davis is an affirmative action/equal opportunity employer and is dedicated to recruiting a diverse faculty community. We welcome all qualified applicants to apply, including women, minorities, individuals with disabilities and veterans.



WISCONSIN
UNIVERSITY OF WISCONSIN-MADISON

FACULTY POSITIONS | Materials Science and Engineering

The Department of Materials Science and Engineering at the University of Wisconsin-Madison seeks new faculty at the Assistant, Associate, and Full Professor levels. Distinguished candidates with outstanding records of achievement will be considered for the Y. Austin Chang Chair in Materials Science and Engineering.

Successful candidates will develop an internationally recognized research program, demonstrate leadership in attracting extramural funding, dedicate themselves to excellence and innovation in both undergraduate and graduate education, and provide service to the profession. Applications are encouraged in advanced polymeric, ceramic, and metallic materials. Areas of interest include but are not limited to the integration of experiment and computation in materials research and *in situ* materials characterization via electron microscopy and ultrafast techniques.

UW-Madison offers world-class research opportunities, interdisciplinary collaborative research centers, and exceptional facilities for materials characterization, computation, and nanofabrication (<http://go.wisc.edu/q29sb6>). The University is committed to assisting candidates in achieving the highest levels of accomplishment.

Applicants for tenure-track positions must provide plans for teaching and research in materials science and engineering (each two pages maximum), a curriculum vitae, and three letters of reference. Candidates for tenured positions must provide curriculum vitae, teaching and research statements, and contact information for five references. All materials should be sent electronically to mse.applications@engr.wisc.edu. Applications must be received by **December 1, 2013** to ensure consideration.

Unless confidentiality is requested in writing, information regarding applicants must be released upon request. Finalists cannot be guaranteed confidentiality. UW-Madison is an equal opportunity/affirmative action employer.



Georgia Tech School of Materials Science and Engineering

FACULTY POSITIONS

School of Materials Science and Engineering

The School of Materials Science and Engineering (MSE) at the Georgia Institute of Technology (GT) is seeking to add tenure-track faculty in several areas as described below. Applicants with exceptional records of creativity, originality, and excellence will be considered at all levels.

Metals: Outstanding candidates with demonstrated expertise in physical, mechanical, and/or process metallurgy, and the ability to build a strong research program based on structural metals and alloys, with emphases in bulk metal processing and process modeling will be considered. Qualified candidates must possess a PhD degree in Materials Science and Engineering or a closely-related field, with an emphasis on metallurgy.

Ceramics: Outstanding candidates with demonstrated expertise in the synthesis and processing of ceramics, and the ability to build a strong research program based on functional ceramics for electronic, magnetic, optical, thermal, or catalytic/chemical applications, will be considered. Qualified candidates must possess a PhD degree in Materials Science and Engineering or a closely-related field, with an emphasis on ceramics.

In Situ/Operando Characterization: Outstanding candidates with demonstrated expertise and leadership in developing advanced approaches for characterizing the structure, composition, and/or properties of materials at different length and time scales under *in situ* or *in operando* conditions, and building a strong research program based on such analytical tools, will be considered. Qualified candidates must possess a PhD degree in Materials Science and Engineering or a closely-related field, with an emphasis on materials characterization.

Successful candidates will be expected to lead independent research programs at the cutting edge of their field, attract external funding to build strong sponsored-research activities, successfully mentor graduate students, and develop and teach fundamental courses at the undergraduate and graduate levels. There are numerous opportunities for campus-wide interactions with the various academic units in the Colleges of Engineering and Science, as well as with interdisciplinary institutes, such as the Institute for Materials (IMat), the Manufacturing Institute (GTMI), the Strategic Energy Institute (SEI), and the Institute for Electronics and Nanotechnology (IEN).

Interested candidates must submit an online application, which includes a cover letter, curriculum vitae, statements of research interest and teaching philosophy, and the names (and contact information) of at least five references, at <http://www.mse.gatech.edu/facultyjobs/apply>. Applications will be considered until the positions are filled. The selection process will include passing a pre-employment background screening.

Georgia Tech is an Affirmative Action/Equal Opportunity Employer.



WICHITA STATE UNIVERSITY

DEPARTMENT CHAIR | Mechanical Engineering

The Department of Mechanical Engineering at Wichita State University is seeking candidates for the position of Department Chair at the level of full professor. The individual selected for this position is expected to provide academic leadership to the department, initiate the development and execution of new education and research initiatives, and represent the department to the academic community, alumni, and industry. The Department Chair will promote diversity within the department and participate in faculty development.

Required Qualifications: Candidates must have an earned doctorate in Mechanical Engineering or related fields (at least one degree from an ABET accredited institution) and must be qualified for a tenured faculty position at the full professor rank within the department. Candidates must have evidence of excellence in education and a strong record of scholarly and funded research. S/he must have a demonstrated record of leadership, management, and communication abilities, and working with industry.

Desired Qualifications: Candidates should have a record of scholarly achievements in one or more of the areas supported by the department—mechanical design, thermo-fluids, and materials engineering. Appreciation and experience in interdisciplinary education and research is desirable.

Application Process: Candidates should submit a curriculum vitae, application letter addressing how s/he meets the position requirements, a vision of mechanical engineering department that promotes multi-disciplinary education and research in mechanical engineering and materials, and contact information for five references (name, address, e-mail, and phone number) at <https://jobs.wichita.edu> by **November 10, 2013**. Applications will continue to be reviewed after that date, until the position is filled. Enquiries can be made to Dr. Krishna K. Krishnan, Search Committee Chair, Department of Industrial and Manufacturing Engineering, Wichita State University, 1845 N. Fairmount, Wichita, KS 67260-0035 (e-mail: Krishna.krishnan@wichita.edu or Ph. 316-978-5903).

General Information: The Department of Mechanical Engineering has a total of over 400 undergraduate students, 100 graduate students in MS and PhD programs, 11 tenured/tenure-track faculty, and a full range of teaching and research laboratories. The College of Engineering is undergoing significant expansion with about 12 new faculty hired during Spring 2013. The College has recently added baccalaureate programs in Bioengineering and Engineering Technology and is expected to experience multi-faceted growth. The state of Kansas through a state bill is providing significant support for increasing the enrollment and graduation in engineering at WSU. Wichita State University, with about 15,000 students, is located in Wichita, Kansas, the largest city in Kansas and the industrial center of the state. The greater Wichita area has a population of about 500,000 and is home to several aircraft manufacturers, many aircraft-supporting industries, and information technology companies. Wichita was ranked in *Money Magazine's* recent top 10 "Best Places to Live" of big cities with more than 300,000 people. *Forbes* rated Wichita the Number One least expensive place to "live the good life," and *Kiplinger's* rated Wichita in its top 50 "Smart Places to Live."

The new Chair will have the opportunity to pursue the revitalization plan for the Mechanical Engineering Department that has been developed recently by ME faculty. The plan calls for expansion of mechanical engineering and materials research, initiation of MS and PhD programs in materials engineering, a new name for the department, and expansion of the department faculty.

WSU is an AA/ADA/OOE employer.



Faculty Positions

Department of Materials Science and Engineering

University of Illinois at Urbana-Champaign

The Department of Materials Science and Engineering at the University of Illinois at Urbana-Champaign is seeking exceptional candidates for tenure-track or tenured faculty positions in the broad areas of experimental materials science and engineering, materials chemistry, or materials physics. Applications are welcome in all non-biological areas, and in particular, in soft materials and metals. Faculty members in the Department are expected to teach undergraduate and graduate courses, and initiate and sustain a vigorous graduate research program. Applicants must provide a curriculum vita that includes their teaching experience and interests, a list of publications, and a synopsis of a proposed program of research. All applicants must provide the names and contact information of at least three (3) references when they upload their application. Candidates for tenured positions must have achieved national and international recognition for their scholarship.

The Department presently has 24 faculty and more than 380 undergraduate and 200 graduate students, with highly ranked graduate and undergraduate programs. Extensive state-of-the-art experimental and computational facilities are housed on campus in the Frederick Seitz Materials Research Laboratory, the Beckman Institute, the National Center for Supercomputer Applications, and the new National Petascale Computing Facility.

Applicants must hold an earned doctorate in an appropriate field. Salary and rank will be commensurate with qualifications. The proposed starting date for these positions is as soon as possible after the closing date. To ensure full consideration, applications must be received no later than **November 22, 2013**. The evaluation of applications by the search committee will begin before this date, and interviews may take place during the application period, but no decisions will be made until after the closing date.

To apply for this position, please create a candidate profile at <http://jobs.illinois.edu> and upload your letter of application and resume no later than **November 22, 2013**.

Qualified senior candidates may also be considered for tenured full Professor positions as part of the Grainger Engineering Breakthroughs Initiative, which is backed by a \$100-million gift from the Grainger Foundation. Over the next few years, more than 35 new endowed professorships and chairs will be established, which will provide incredible opportunities for world-renowned researchers. More information regarding the Grainger Initiative can be found at <http://graingerinitiative.engineering.illinois.edu>.

If you do not have online access, please contact the department office for further options:

Department of Materials Science and Engineering
1304 W. Green Street
Urbana, IL 61801
Telephone: 217-333-1440
Fax: 217-333-2736
Email: mse@illinois.edu

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.inclusiveillinois.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 and Research Scholar Positions

Center for Condensed Matter Sciences
National Taiwan University



The Center for Condensed Matter Sciences, a premiere research center at National Taiwan University, has immediate openings for regular faculty and non-tenure research scholar positions. Rank of faculty positions will match with the candidate qualifications. Applicants with excellent credentials in cutting edge condensed matter research fields of electronic, optical, spintronics, quantum transport, nanostructured, and energy materials, as well as spectroscopies and microscopies, in both basic and applied aspects, will be considered.

Applicants should send resume, publication list, research plans and three letters of recommendation to:

Director, Prof. Li-Chyong Chen
Center for Condensed Matter Sciences
National Taiwan University
Taipei 106, Taiwan
Center Assistant: Wei-Lin Chou
Email: cwli1828@ntu.edu.tw
Phone: (02) 3366-5201
Fax: (02) 2365-5404

Closing date for applications is **December 15, 2013**.

ASSISTANT PROFESSOR EXPERIMENTAL INORGANIC CHEMISTRY

The Department of Chemistry at the University at Buffalo (UB), The State University of New York invites applications for a tenure-track faculty position in experimental inorganic chemistry at the Assistant Professor level. All areas of inorganic chemistry will be considered; candidates with interests in materials chemistry or molecular inorganic chemistry related to energy applications are particularly encouraged to apply. An assistant professor is expected to develop a vigorous and funded research program, to contribute effectively to undergraduate and graduate education, and to serve the department, university, and discipline. Applicants must apply online at: <https://www.ubjobs.buffalo.edu/applicants/Central?quickFind=56513>.

The following documents must be submitted: letter of application, CV, research proposals, statement on teaching, and the names and contact information of three references. References will be contacted with a request to submit letters online at www.ubjobs.buffalo.edu. Review of applications will begin on October 15, 2013 and will continue until the position is filled. Questions may be addressed to inorsrch@buffalo.edu.

The University at Buffalo, The State University of New York is an Affirmative Action/Equal Opportunity Employer/Recruiter (AA/EOE) and strongly encourages applications from women, minorities, and individuals with disabilities.



UB University at Buffalo
The State University of New York