



With a staff of 5000, Forschungszentrum Jülich – a member of the Helmholtz Association – is one of the largest interdisciplinary research centres in Europe and stands for the next generation of key technologies. Work with us on the grand challenges in the fields of health, energy & environment, and information technology, as well as on the many and varied tasks of research management.

The Jülich Centre for Neutron Science (JCNS) provides scientists at universities and research institutions in Germany and throughout the world with access to neutron instruments of the highest performance class. In addition, as part of a cooperation agreement with Technische Universität München (TUM), JCNS also performs experiments at the research reactor „Munich II“ (FRM II). At FRM II, primarily basic research is conducted in the fields of physics, chemistry, biology, and materials science.

The JCNS at the FRM II currently has a vacancy for a

**PHYSICIST (f/m)
as second instrument scientist for the thermal time-of-flight spectrometer with polarization analysis (TOPAS)**

Your Job:

- Commissioning of the thermal time-of-flight spectrometer TOPAS at FRM II
- Participation in the user operation of TOPAS at FRM II
- Involvement in the optimization and further instrument developments of TOPAS
- Implementation of your own research projects based on the unique strength of TOPAS and other JCNS instruments
- Participation in the institute’s research programme with a focus on magnetism and correlated electrons systems

Your Profile:

- Excellent and highly motivated Ph.D. in experimental condensed matter physics
- Experience with scattering methods (neutron and/or x-ray scattering)
- Strong interests in studying challenging scientific and technical issues
- Willingness to engage in interdisciplinary collaboration with groups of Forschungszentrum Jülich and external users from research and industry
- Willingness to undertake official travel (e.g. in the context of conducting experiments at other research neutron sources)
- Well-structured and systematic working method

Our Offer:

- Challenging and varied work in an interdisciplinary and international team
- Employment initially for a fixed term of three years, possibility for extension
- Salary and social benefits in conformity with the provisions of the Collective Agreement for the Civil Service (TVöD)

Place of employment: Garching (near Munich)

Forschungszentrum Jülich aims to employ more women in this area and therefore particularly welcomes applications from women.

We also welcome applications from disabled persons.

We are looking forward to your application, ideally online, quoting the **reference code 2012-310**. This job offer is available on our career website www.fz-juelich.de/careers.

contact:

Barbara Kranen

phone: +49 2461 61-9700

www.fz-juelich.de



Andrew W. Mellon Postdoctoral Fellowship in Heritage Science

Sheridan Libraries and Museums
Johns Hopkins University

With support from the Andrew W. Mellon Foundation, the Sheridan Libraries and Museums at Johns Hopkins University is opening its 2013 Call for Proposals for its postdoctoral fellowship in Heritage Science for Conservation. The two year postdoctoral fellowship focuses on scientific research in support of book and paper conservation. Research topics for Heritage Science for Conservation can be found on the HSC website: <http://library.jhu.edu/hsc>.

The postdoctoral fellowship includes an annual stipend of \$56,000, benefits, and modest support for research-related travel.

Eligibility: Candidates should have received a PhD in science/engineering within the last five years. Candidates must be familiar with relevant scientific instrumentation. A strong interest in book and paper conservation is required and previous experience in conservation or cultural artifacts is desirable. English-language skills and a proven record of research and writing ability are required.

For further application information, visit: <http://library.jhu.edu/departments/preservation/hsc/application.html>



**Assistant/Associate/Full Professor
in Mechanical Engineering**

The Department of Mechanical Engineering at the University of New Mexico invites applications for one or more full-time positions in the area of mechanics of nanomaterials. An Assistant Professor hire will be a probationary appointment leading to a tenure decision. Associate or Full Professor ranks will also be considered.

Applicants must hold an earned doctorate in mechanical engineering or a closely related field by the start date of the appointment. Candidates should have demonstrated expertise in the broad area of experimental solid mechanics, a strong commitment to teaching excellence, and a record of achievement in relevant areas of experimental research in nanomaterials, nanomechanics, biological microelectromechanical systems, and/or nanoelectromechanical systems.

For complete job requirements and to apply, go to: UNMJobs.unm.edu (posting number **0818423**). For best consideration, complete applications must be received by January 15, 2013.

The University of New Mexico is an equal opportunity/affirmative action employer and educator. We especially encourage members of underrepresented groups to apply.



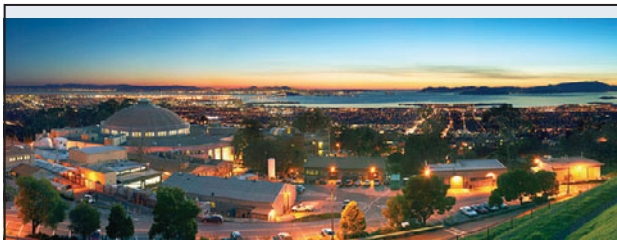
TENURE-TRACK ASSISTANT PROFESSOR

Department of Physics
South Dakota State University

The Department of Physics at South Dakota State University is seeking an experimentalist with postdoctoral experience to fill a new full time (9-month) tenure-track assistant professor position beginning August 2013. Candidates should have a PhD degree in Physics or a closely related field such as Materials Science. A potential for developing a strong research program as demonstrated by publications and potential for attracting external funding is a must. A strong commitment to teaching and involving UG majors in research is desired.

Applicants should visit <https://yourfuture.sdbor.edu> for a complete list of minimum and desired qualifications, job description, as well as the electronic application process. For further questions on the position, contact Professor David Aaron, search chair, at david.aaron@sdstate.edu. Applications will be reviewed commencing January 11, 2013. For questions on the electronic employment process, contact SDSU Human Resources at 605.688.4128.

SDSU is an AA/EEO employer.



Staff Scientist (Light Capture Directed Discovery)
Req. # 75290
Division: Material Sciences

The Joint Center for Artificial Photosynthesis (JCAP) Staff Scientist will focus on the discovery of light capture materials which can realize the JCAP project goal of a spontaneous (no-bias) solar to fuel conversion device with an efficiency 10x that of current crops. JCAP is a Solar Fuels Innovation Hub recently funded by the Department of Energy (122 M, 5 years) with physical location at the sites of its major partners, Caltech (South) and Lawrence Berkeley National Laboratory (North). Realization of the JCAP vision will require significant experimental innovation in light capture materials. The incumbent, who will be located at JCAP North Site in Berkeley, is expected to drive our Directed Discovery efforts in this strategic space with an initial emphasis on creating stable photoanodes based on earth-abundant elements.

This position offers an exciting and unique opportunity for an early to mid-career researcher to assume a key role in advancing practical solar to chemical energy conversion.

For a detailed position description and instructions regarding how to apply, please visit www.lbl.gov, access the careers page and reference job number 75290.



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



ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE

**Faculty Position in Electrical Energy Generation,
Conversion and Storage**
at the Ecole polytechnique fédérale de Lausanne (EPFL)

The School of Engineering at EPFL invites applications for a **tenure-track assistant professor position in the area of Electrical Energy Generation, Conversion and Storage.**

Topics of interest include, but are not limited to, systems for electricity generation and storage. The candidate should have a strong background in electrical and/or materials engineering.

As a faculty member of the School of Engineering, the successful candidate will be expected to initiate an independent and creative research program and participate in undergraduate and graduate teaching. Internationally competitive salaries, start-up resources and benefits are offered.

The EPFL, located in Lausanne, Switzerland, is a dynamically growing and well-funded institution fostering excellence and diversity. It has a highly international campus at an exceptionally attractive location boasting first-class infrastructure. As a technical university covering essentially the entire palette of engineering and science, EPFL offers a fertile environment for research cooperation between different disciplines. The EPFL environment is multi-lingual and multi-cultural, with English often serving as a common interface.

Applications should include a cover letter with a statement of motivation, curriculum vitae, list of publications and patents, concise statement of research and teaching interests, and the names and addresses of at least five referees. Applications must be uploaded in PDF format to the recruitment web site:

energy-search13.epfl.ch

Formal evaluation of candidates will begin on **28 January 2013.**

Enquiries may be addressed to:

Prof. John Thome
Search Committee Chair
e-mail: energy-search@epfl.ch

For additional information on EPFL, please consult the web sites: www.epfl.ch, sti.epfl.ch, iel.epfl.ch, imx.epfl.ch.

EPFL is committed to increasing the diversity of its faculty, and strongly encourages women to apply.



Faculty Positions

Herbert Gleiter Institute of Nanoscience

Nanjing University of Science and Technology (NUST) invites for its Institute of Nanoscience (named Herbert Gleiter Institute (HGI), founded in October 2012) outstanding applicants for faculty positions at all ranks (tenure-track as well as tenured faculty positions) in the following research areas.

Nanostructured crystalline and nanostructured non-crystalline materials with new kinds of atomic structures and properties. The focus of this research field is to pioneer new methods of synthesis as well as new methods of characterization and/or improving our present understanding of all kinds of nanomaterials and their mechanical, electrical, magnetic, optical, or catalytic properties. The group will be headed by Profs. Herbert Gleiter and Horst Hahn from HGI and INT.

Chemical physics and functional nano (bio) systems. The focus of this research field is to pioneer unconventional chemical reactions and self-assembly of surface-assisted functional systems ("Chemistry beyond the test-tube"), and bio-hybrid systems as well as their local physical and chemical characterization with high resolution methods including methods allowing to study the dynamics of the systems investigated. The successful candidates may alternatively also have a theoretical background, which allows the setup of predictive methods towards the development of advanced molecular devices. The group will be headed by Profs. Harald Fuchs and Thomas Schimmel from HGI and INT.

The successful candidates will further benefit from the close cooperation between HGI and the Institute of Nanotechnology (INT) at the Karlsruhe Institute of Technology (KIT) in Germany.

Equipment

HGI provides access to state-of-the-art equipment, including characterization methods such as XRD, high-resolution SEM and TEM (including Cs-corrected), He-ion microscopes and atom probes as well as processing equipment such as FIB. Equipment for individual research, such as synthesis methods for nanomaterials and additional characterization methods, will be provided upon demand.

Qualifications

For Associate Professor or Full Professor positions at NUST, at least three years of work experience as a postdoctoral fellow with proven outstanding performance in research is required. The applicants for the Full Professor positions are expected to be internationally renowned scientists and established leaders in the research areas of HGI. Chinese language is not required. Communication in the HGI and the associated institutes is in English.

Interested candidates should apply with a file including: a cover letter; a full curriculum vitae; statements summarizing research achievements, research interests, and future plans; three to five representative publications including ISI citations index summary; and the names and contact information of at least three referees. Screening begins immediately and will continue until the positions are filled.

Applications should be sent to Ms. Qian Lu at luqian@njust.edu.cn.

Mailing Address:

Nanjing University of Science & Technology
Herbert Gleiter Institute of Nanoscience
Building 340
200 Xiaolingwei Street
Nanjing 210094, China



MATERIALS SCIENCE
AND ENGINEERING

TENURE-TRACK FACULTY POSITION

Department of Materials Science
and Engineering

The Department of Materials Science and Engineering at Clemson University is seeking outstanding candidates to fill multiple tenure-track positions at the Assistant Professor level. It is expected that the candidates will be capable of establishing a high quality research program in all areas of materials science and engineering though preference will be given to optical glasses, metallurgy, and advanced ceramics.

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

All applications should be submitted electronically. Qualified applicants should provide: 1) a current CV; 2) research statement describing a minimum of two externally-fundable research programs and also highlighting complimentary capabilities to existing faculty and programs (2-4 pages; for current faculty research areas, please refer to <http://www.clemson.edu/mse/People/Faculty.htm>); 3) a description of teaching philosophy including undergraduate and graduate course competencies and how they would fit into the present academic programs (1-2 pages); and 4) names and contact information for three references.

The application package should be combined into a **single PDF** file and emailed to msesearch@clemson.edu. Questions can be sent via email to Dr. John Ballato, Chair of the MSE Search and Screening Committee at jballat@clemson.edu; no phone calls please. Review of applications will commence **March 1, 2013**, with full consideration being assured to applications received by this date. Screening will continue until the position is filled. Women and minorities are especially encouraged to apply.

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



WISCONSIN
UNIVERSITY OF WISCONSIN-MADISON

Johnson Controls Endowed Professorship in Energy Storage

The University of Wisconsin invites applications for the Johnson Controls Endowed Professorship in energy storage research in any relevant field of engineering or physical sciences. This endowed professorship results from a recent significant philanthropic support from Johnson Controls Inc. to establish a statewide partnership to foster innovative, collaborative, and internationally recognized research in the area of energy storage devices, and to deepen and expand the existing mutually beneficial partnership among Johnson Controls, UW-Milwaukee and UW-Madison. The successful candidate holding the professorship will have tenure at both UW-Milwaukee and UW-Madison and is expected to maintain laboratories and supervise graduate students at these campuses.

Further details on the faculty position are available at http://www.ohr.wisc.edu/pvl/pv_075158.html and <http://www.uwm.edu/CEAS/>.

Candidates must be recognized as a national and international expert in energy storage technology education and research. Required qualifications include: PhD degree or equivalent in a relevant field, willingness and ability to develop strong research relationships with industries and/or government, a publication record of high-quality and high-impact research, and commitment to teaching excellence. Candidates with a strong track record of securing external funding, proven ability to work in an interdisciplinary environment, experience in supervising students at all academic levels, and superior public speaking skills are preferred.

The UW-Madison campus is located in the heart of the city of Madison that offers a vibrant living and learning community (<http://www.uc.wisc.edu/slideshow/slideshow.html>). UW-Milwaukee is a doctoral/research extensive university and

Wisconsin's premier public urban institution. The College has a long history of industrial collaboration and research support. More details about the College can be found at <http://www.uwm.edu/CEAS/>.

How To Apply:

Application materials should include: a letter describing your interest in and qualifications for the position; a curriculum vitae; a brief research plan; a teaching statement; requested departmental affiliation; and a list of three references that includes names, addresses (including email), and telephone numbers. The complete application package must be submitted to the email address below. Screening begins on **January 22, 2013** and will continue until the position is filled. Questions should be directed to:

M. Corradini
Chair, Search Committee
143 Engineering Research Building
1500 Engineering Drive
Madison, WI 53706-1691
Phone: 608-263-1648
Email: director@wei.wisc.edu

The University of Wisconsin is an equal opportunity/affirmative action employer. We promote excellence through diversity and encourage all qualified individuals to apply.



FACULTY POSITIONS

Department of Mechanical Engineering and Materials Science

The Department of Mechanical Engineering and Materials Science (MEMS) at the University of Pittsburgh (Pitt) invites applications for two tenure-track positions in **Materials Science and Engineering (MSE)**. Successful applicants are expected to build an externally funded research program which contributes to the existing strengths of our program while enhancing strategic areas targeted for future growth, such as advanced processing with particular focus on additive manufacturing and energy, applications. Applicants should also have a sound background for and dedication to teaching undergraduate and graduate courses in the Materials Science and Engineering programs. Accordingly, applicants should have a PhD degree in Materials Science & Engineering or a related field, and a demonstrated commitment to excellence in teaching and research. While the position is primarily for the junior rank, applicants with outstanding track records of higher ranks will also be considered. Although, preference will be given to applicants whose research focus is Physical Materials (Physical Metallurgy, Physical Ceramics), exceptional candidates in our strategic areas of growth are encouraged to apply.

The Department of Mechanical Engineering and Materials Science, formed by a merger of the departments of Mechanical Engineering and Materials Science and Engineering in 2006, has 28 tenured or tenure-track faculty members who generate nearly \$7 million in annual research expenditures. Current research thrusts include high temperature materials, materials processing, computational mechanics and fluid dynamics, computational materials science, material characterization at multiple length scales, energy technologies, smart materials and structures, functional nanomaterials, micro/biofluidics, biomaterials, advanced ceramics, smart structures, and biomechanics.

The successful candidates for this position will especially benefit from the resources, support, and multidisciplinary research environment fostered by the University of Pittsburgh's Center for Simulation and Modeling (<http://www.sam.pitt.edu>), the Pittsburgh Supercomputing Center (<http://www.psc.edu>), and the Center for Energy (<http://www.energy.pitt.edu>). The Petersen Institute of NanoScience and Engineering's (<http://www.nano.pitt.edu>) Nanoscale Fabrication and Characterization Facility houses state-of-the-art transmission electron microscopy, dual beam FIB, dedicated E-beam lithography, SEM, EPMA, FTIR, SPM, XRD, UV-Vis-IR spectrophotometer, and clean-room facilities.

Qualified applicants are strongly encouraged to submit their application electronically to pitt-mems-search@engr.pitt.edu. Applications should include the following materials in pdf form: a curriculum vitae, a statement of research interests and teaching philosophy, and a list of at least three references. Application can also be submitted by mail to Chair (MSE Faculty Search), Department of Mechanical Engineering and Materials Science, 636 Benedum Hall, Swanson School of Engineering, University of Pittsburgh, Pittsburgh, PA 15261. Review of applications will begin on January 2, 2013, and continue until the positions are filled.

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



With a staff of 5000, Forschungszentrum Jülich – a member of the Helmholtz Association – is one of the largest interdisciplinary research centres in Europe and stands for the next generation of key technologies. Work with us on the grand challenges in the fields of health, energy & environment, and information technology, as well as on the many and varied tasks of research management.

The Jülich Centre for Neutron Science (JCNS) provides researchers in Germany and throughout the world with access to leading neutron instruments. The JCNS is now enlarging its Scientific Computing Group at the research reactor FRM II in Garching near Munich. The group organizes the data management at FRM II, develops data-analysis software for neutron scattering, and performs physical simulations to complement scattering experiments.

The Scientific Computing Group at FRM II in Garching currently has a vacancy for a

POSTDOC (f/m) for scientific software development and its application to condensed-matter research

Your Job:

- Participate in the research program of the JCNS, with focus on soft-matter or biophysics
- Perform and analyse neutron scattering experiments
- Develop domain-specific software for data reduction and supporting simulations

Your Profile:

- University degree and PhD in physics, or equivalent qualification
- Research interest in condensed matter physics
- Sound programming experience, preferably in C++ or/and Python

Our Offer:

- Challenging and varied work in an interdisciplinary and international team
- Employment for a fixed term of three years
- Opportunity to job share
- Salary and social benefits in conformity with the provisions of the Collective Agreement for the Civil Service (TVöD).

Place of employment: Garching near Munich

Forschungszentrum Jülich aims to employ more women in this area and therefore particularly welcomes applications from women.

We also welcome applications from disabled persons.

Please send your written application, quoting the **reference code 297/2012MR** to:

Forschungszentrum Jülich GmbH

Personnel Department
- Human Resource Development (P-E) -
52425 Jülich
Germany

contact:
Barbara Kranen
phone: +49 2461 61-9700
www.fz-juelich.de



FACULTY POSITIONS Biomaterials

Beihang University

Established in 1952, Beihang University is an open, multi-disciplinary, research-oriented university focusing on fundamental cutting edge research and high-level education. One of the first universities to be funded by China's "211" and "985" programs, today Beihang is known for outstanding research and education in aviation and aerospace sciences, power and energy engineering, materials science, mechanics, information science, transportation science, instrumentation science, management science, and law. It has seven national key laboratories and twenty-five provincial and ministerial key laboratories. These laboratories and the newly established International Research Institute for Multidisciplinary Science indicate Beihang's strength as a research-oriented university.

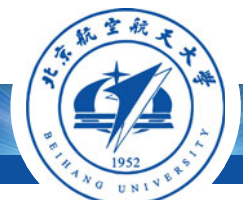
As part of Beihang University's further pursuit for excellence in research and education, five independent international research centers were established recently under the name of International Research Institute for Multidisciplinary Science. Among the five centers, the International Research Center for Biological and Nature-Inspired Materials (IRC-BNIM), led by materials scientist Professor R. O. Ritchie, is devoted to creating an environment that nurtures and promotes excellence in the sciences and engineering, focusing on the forefront of multidisciplinary scientific research on biomaterials involving the materials sciences and engineering of natural materials, biological tissue, medical implants, and bio-inspired materials.

The IRC-BNIM has full-time, tenure-track faculty positions available at all levels. Eligible candidates should have a track-record for excellence in research in the disciplines of Materials Science, Mechanical Engineering, Chemistry, and/or Biology in the general areas of biomaterials and/or biological, natural, bio-inspired, and medical materials, with the drive and potential to lead a successful research group. Annual salaries will range from 150-200k RMB (associate professors) to 200k-300k RMB (professors) with competitive start-up packages of 300k-4.5M RMB, together with other benefits. Position, salary, and start-up package will vary with qualifications. Postdoctoral positions are also available.

Contact:

Beihang University
Department of Human Resources
No. 37, Xueyuan Road
Beijing, 100191, P.R. China

Tel: +86-10-82317779, 82316107
Fax: +86-10-82317777
E-mail: rscrcb@buaa.edu.cn
<http://rsc.buaa.edu.cn/>





TENURE-TRACK FACULTY POSITION Department of Materials Science and Engineering

The Department of Materials Science and Engineering (MSE) at Stanford University invites applications for a tenure-track position at the Assistant Professor level. Under special circumstances involving exceptional academic merit, candidates at the untenured Associate Professor level may be considered. We seek applicants with significant accomplishments in materials research in its broadest sense that may include materials characterization involving structure characterization, characterization through property measurement (e.g. nano-mechanics, nano-electronics), theoretical modeling, etc. Stanford University has excellent facilities in these areas as represented by the Stanford Nanocharacterization Laboratory (SNL), the Molecular Imaging Program at Stanford (MIPS), the Stanford Nano Center (SNC), the Stanford Nanofabrication Facility (SNF), the Center for Biomedical Imaging at Stanford (CBIS) and the X-ray facilities at the Stanford Linear Accelerator Center (SLAC). The successful candidate is expected to play a major role at one of these facilities.

The successful candidate is also expected to make major contributions to large scale multidisciplinary research and to contribute significantly to leadership in Stanford's nanoscience and technology efforts which span several Departments and Schools, including faculty in the Schools of Engineering, Medicine, and Humanities and Sciences. We are looking for a motivated individual who is committed to excellence in teaching and to the mentoring of students in multidisciplinary materials research applied to energy and the environment, biomedical research and imaging, nano-mechanical or nano-electronic properties and devices, etc.

Applicants should include a summary of their educational and professional backgrounds, a current list of published work, and the names of at least three referees who may be consulted by the search committee. An indication of how the candidate's experience matches the position described above should also be given. Applicants are encouraged to write brief descriptions of their plans for future research and how those plans might be realized in a Stanford setting, as well as to submit similar statements on teaching, focusing especially on their vision of teaching to students in the Department of Materials Science and Engineering. The appointment is expected to be made during the forthcoming academic year. Please apply online at: http://mse.stanford.edu/faculty/faculty_search.html. Applications should be submitted by **March 31, 2013**. Questions should be directed to, Search Committee Chair, c/o Carol Scott, via electronic mail to msearch@stanford.edu.

Professor Robert Sinclair
Chair, Department of Materials Science and Engineering
Stanford University
Stanford, CA 94305-4034
Phone: (650) 723-1102
Fax: (650) 725-4034
Email: msearch@stanford.edu

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



TENURE-TRACK FACULTY POSITIONS Department of Materials Science and Engineering

The Department of Materials Science and Engineering at the University of Utah invites applications for two tenure-track positions at the Assistant or Associate Professor level, beginning Fall Semester 2013.

We are looking for highly motivated and creative candidates who demonstrate distinction in published research and strong commitment to teaching. Applicants must have an earned doctoral degree in materials science and engineering or in a closely related field. Candidates having computational and/or experimental research experience with an emphasis in energy materials will be highly considered. Applicants with an excellent record in other related areas of materials science and engineering will also be considered. In addition the successful candidates will be expected to teach basic materials science courses (thermodynamics, kinetics, traditional materials processing, and characterization) and the experimental candidates must be able to also teach existing lab courses as well as develop new lab courses for undergraduate students. The successful candidates will also be expected to teach existing graduate courses as well as develop new graduate courses related to their research expertise. Both successful candidates in either computational and/or experimental will be expected to teach basic materials science undergraduate and graduate courses.

Applicants should apply online at <http://utah.peopleadmin.com/postings/19506>. Applicant should include with the on-line application a complete curriculum vitae and a separate two- to three-page statement of research and teaching goals. Candidates for **Assistant Professor position** must have three letters of references sent directly to the department. Candidates for **Associate Professor position** must have achieved national and international recognition for their scholarship, and a track record of consistent extramural funding. The candidate must also include the names, addresses, and e-mail addresses of four references sent directly to the department.

Address for sending letters of reference information:

University of Utah
Dept. of Materials Science and Engineering
122 S. Central Campus Drive, Rm. 304
Salt Lake City, Utah 84112
Attn: Search Committee Secretary

Screening and evaluation of applicants will begin upon receipt of applications and will continue until the position is filled.

The University of Utah values candidates who have experience working in settings with students from diverse backgrounds and possess demonstrated commitment to improving access to higher education for historically underrepresented students.

The University of Utah is an Equal Opportunity/Affirmative Action employer and education. Minorities, women, and persons with disabilities are strongly encouraged to apply. Veteran's preference. Reasonable accommodations provided. For additional information, access www.regulations.utah.edu/humanResources/5-106.html

 Southern Connecticut State University**TENURE-TRACK FACULTY POSITION**

Department: PHYSICS

Rank: Assistant/Associate Professor**Specialization(s):** Bio-physics or bio-nanotechnology, high-resolution imaging of biomaterials; experimentalist preferred.**Brief Description of Duties/Responsibilities:** Teaching of introductory and upper-level courses for physics and other science majors, and elementary core courses for other undergraduates; mentoring majors; scholarly research with strong potential for undergraduate and Master's degree student participation; scientific interaction with departmental faculty; participation in collegial service and professional activities. The department has recently established a master's degree program in applied physics and the successful candidate will be expected to actively participate in this endeavor (<http://www.southernct.edu/physics/>).**Required Qualifications:** Ph.D. in physics, bio-physics, material science or closely related field and a demonstrated commitment to undergraduate education with evidence of teaching effectiveness and ability to perform research that potentially involves undergraduate and master's degree students, preferably in collaboration with current department faculty.**Preferred Qualifications:** Primary interest in biomaterials physics or bio-nanotechnology, experimentalist preferred in the field of high resolution imaging of biomaterials using novel imaging technologies. Preference will be given to applicant committed to collaborating with one or more of the current faculty members. We value effective teaching at all levels, student involvement in faculty research, and energetic participation in the scientific community by faculty and students. Our department houses a significant component of an NSF-supported Materials Research Science and Engineering Center, in collaboration with Yale University (<http://www.crisp.yale.edu/>) and a Nanotechnology Center.**Application Process:** Please submit letter of interest, curriculum vitae, letter describing professional goals and statement of teaching perspective and scholarly interests. Identify at least three references with e-mail addresses and phone numbers. Send materials to **Dr. Christine Broadbridge, Chairperson, Department of Physics, Southern Connecticut State University, 501 Crescent St., New Haven, CT 06515** or e-mail to: physics@southernct.edu.

In order for your application to be given full consideration, all materials must be received by January 15, 2013. Position will remain open until filled.

EOE

ROSE-HULMAN
INSTITUTE OF TECHNOLOGY**FACULTY POSITION****Department of Physics
and Optical Engineering**

The Department of Physics and Optical Engineering seeks a full time tenure-track faculty position for the engineering physics program starting August 2013 at the Assistant or Associate Professor levels. A PhD degree in engineering with a focus on micro and nanotechnology or materials is highly preferred. The department offers a BS degree in physics, BS degree in engineering physics (micro and nanotechnology), and a BS and MS in optical engineering. The department operates a modern teaching/research observatory as well as active research and development programs in semiconductors, nanotechnology, fiber optics, electro-optics, acoustics, MEMS and NEMS, nano-medicine, nano-magnetic particles, quantum dots, astronomy, lens design, holography, photorefractive materials, x-ray fluorescence, optical metrology, biomedical optics, non-linear optics, semiconductors, magneto-optics, laser physics, and semiconductor optics and participates in several innovative curriculum experiments and educational development. The MiNDS (Micro-Nanoscale Devices and Systems) facility provides the opportunity for faculty and students to be involved in various aspects of micro and nanotechnology for teaching, research, and lab experiences. Outstanding teaching is the most significant criterion for success at Rose-Hulman.

The successful candidate will be expected to teach lower and upper division courses in engineering physics and lower division courses in physics and optics. Review of applications will start **January 20, 2013** and will continue until the position is filled. Interested candidates should submit a resume or curriculum vitae, cover letter, teaching philosophy, research statement, and a list of references online at <https://jobs.rose-hulman.edu>. Contact person: Dr. Charles Joenathan, Chair, Department of Physics and Optical Engineering, Rose-Hulman Institute of Technology, 5500 Wabash Avenue, CM 169, Terre Haute, IN 47803 or emailed to joenatha@rose-hulman.edu.

EOE/AA

 UNIVERSITY OF CALIFORNIA
UCRIVERSIDE**FACULTY POSITIONS****Senior Sustainable Energy Engineering**

Bourns College of Engineering

The Bourns College of Engineering at the University of California, Riverside expects to hire two outstanding senior faculty to provide leadership in sustainable energy engineering beginning in the 2013/2014 academic year. In particular, we seek highly motivated and recognized individuals to lead and conduct cutting-edge research in generation, storage, distribution, and/or materials development for sustainable energy systems. Both positions will be interdisciplinary with the successful candidate affiliated with one or more engineering departments in the College, the Materials Science and Engineering Program, and the Winston Chung Global Energy Center. Specific areas of interest are provided at www.engr.ucr.edu/facultysearch/.

We anticipate that the successful applicant will complement the highly motivated and entrepreneurial spirit of the College faculty, contributing meaningfully to the success of future teaching, research, and service accomplishments. Incumbents are expected to initiate and sustain strong sponsored research and graduate training programs.

The Bourns College of Engineering is proud of its faculty's accomplishments and rapid growth. The College currently has 89 faculty members, 2,300 undergraduates, more than 500 graduate students, and more than \$32 million in annual research expenditures. The College is home to five interdisciplinary and multidisciplinary research centers: The Center for Environmental Research and Technology (CE-CERT), the Center for Research in Intelligent Systems (CRIS), the Center for Nanoscale Science and Engineering (CNSE), the Center for Ubiquitous Communications by Light (UC-Light), and the Winston Chung Global Energy Center.

Search committees will begin reviewing applications as early as **February 1, 2013**. To apply, please register through the weblink at www.engr.ucr.edu/facultysearch/ and submit the requested PDF files. For inquiries and questions, contact us at facultysearch@engr.ucr.edu.

The University of California, Riverside is an Equal Opportunity/Affirmative Action Employer.



USC Viterbi

School of Engineering

FACULTY POSITION Materials Science

USC Viterbi School of Engineering
University of Southern California

USC's Viterbi School of Engineering is among the top engineering schools in the world, offering world-class research opportunities, interdisciplinary collaborative research centers, and exceptional facilities for research (<http://viterbi.usc.edu/research/>). The Mork Family Department of Chemical Engineering and Materials Science seeks to fill a tenure-track faculty position at the Assistant or Associate Professor level. We seek outstanding candidates in materials science who are pursuing research in materials for energy and extreme environments. Exceptional candidates in other areas of materials science will also be considered. (<http://chems.usc.edu>)

Applicants for tenure-track positions must provide:

- Curriculum vitae
- Plans for teaching and research in materials science (each two pages maximum)
- Contact information for three individuals who can provide letters of reference
- Cover letter

Submit all materials electronically through Viterbi's faculty application website at <http://viterbi.usc.edu/facultyapplications/>. Interested individuals are welcome to contact Prof. Steven Nutt, Chair of the Department at nutt@usc.edu, or Heather Alexander at 213-740-2062. Applications received by **February 1, 2013** will receive full consideration.

The University of Southern California values diversity and is committed to equal opportunity in employment. Women and men, and members of all racial and ethnic groups are encouraged to apply.



TENURE-TRACK FACULTY POSITION

Department of Mechanical Engineering and Engineering Science
The University of North Carolina at Charlotte

The Department of Mechanical Engineering and Engineering Science at UNC-Charlotte is currently seeking candidates for a tenure-track position at the assistant professor level in the general area of thin film processing and functional materials with a strong background in thin film processing and advanced materials characterization including X-ray diffraction, transmission electron microscopy, Raman spectroscopy, and scanning electron microscopy. Candidates with outstanding track record may be considered for advanced ranks. Candidates with research experience and interests in advanced film deposition technologies, materials characterization and energy related materials are especially encouraged to apply. Candidates must have a Ph.D. in materials science and engineering or a related field at the time of appointment. It is expected that the successful candidate will actively seek external funding, develop and sustain a strong research program, and publish in reputable technical journals. The candidate must be committed to teaching at both the undergraduate and graduate levels. Candidates from under-represented groups are particularly welcome to apply.

The departmental research is primarily in the areas of precision metrology, biomedical engineering, motorsports and automotive engineering, solid and fluid mechanics, and materials. In addition, the Center for Precision Metrology, Center for Biomedical Engineering Systems, the North Carolina Motorsports and Automotive Research Center and the Energy Production and Infrastructure Center are affiliated with the department and foster collaborative and multidisciplinary research. The successful candidate will have opportunities to participate in the research activities of these centers.

The expected starting date for the appointment is August 2013. Review of applications will begin immediately and will continue until the position is filled. Applicants should submit their applications electronically at <https://jobs.uncc.edu>, and only electronic submissions will be accepted.

Applicants are requested to attach the following documents with their electronic submission: a cover letter, a vita, a research statement and a teaching statement, and full contact information for three references. Finalists will be asked to forward official transcripts and other supportive materials as requested by the search committee.

For additional information, please contact: Dr. Qiuming Wei (qwei@uncc.edu), Chair of Materials Search Committee. Applicants are subject to a criminal background check.

*The University of North Carolina at Charlotte
is an AA/EQ employer.*



FACULTY POSITION

Department of Applied Physics and Materials Science
Materials Science Focused

The Department of Applied Physics and Materials Science within the Division of Engineering and Applied Science at Caltech invites applications for a tenure-track position at the assistant professor level. We are seeking highly qualified candidates committed to a career in research and teaching. In addition to applicants from the traditional areas of materials science and engineering, we are interested in applicants with an interdisciplinary background spanning these and other areas such as computational methods, surface science, nanoscience, and energy science and technology.

Interested applicants should submit an electronic application by visiting <http://eas.caltech.edu/positions/>.

Candidates are required to submit a current CV, research and teaching statements, copies of key publications, as well as three to six letters of reference. Initial appointments at the assistant professor level are for four years and are contingent on completion of the PhD degree.

Caltech is an Equal-Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.



With a staff of 5000, Forschungszentrum Jülich – a member of the Helmholtz Association – is one of the largest interdisciplinary research centres in Europe and stands for the next generation of key technologies. Work with us on the grand challenges in the fields of health, energy & environment, and information technology, as well as on the many and varied tasks of research management.

The Jülich Centre for Neutron Science (JCNS) provides scientists at universities and research institutions in Germany and throughout the world with access to neutron instruments of the highest performance class. As part of a cooperation agreement with TU Munich, JCNS performs neutron scattering experiments at the research neutron source FRM II. At FRM II, primarily basic research is conducted in the fields of physics, chemistry, biology, and materials science.

The JCNS at the FRM II currently has a vacancy for a

PHYSICIST (f/m) as second instrument responsible for the MARIA reflectometer

Your Job:

- Involvement in the commissioning of the MARIA reflectometer at FRM II
- Involvement in user operation of MARIA at FRM II
- Contribution to optimizing and further developing MARIA
- Realization of own research projects using the unique properties of MARIA and other JCNS instruments
- Participation in the institute's research programme focusing on soft matter and biophysics

Your Profile:

- Above-average PhD in experimental physics of condensed matter and high level of motivation
- Experience with scattering experiments (neutron and/or X-ray scattering)
- Great interest in studying challenging scientific and technical issues
- Willingness to engage in interdisciplinary collaboration with groups from Forschungszentrum Jülich and external users from research and industry
- Willingness to undertake official travel (e.g. in the context of conducting experiments at other research neutron sources)
- Well-structured and systematic way of working

Our Offer:

- Challenging and varied work in an interdisciplinary and international team
- Employment initially for a fixed term of three years
- The position is a full-time position to be filled by one employee only
- Salary and social benefits in conformity with the provisions of the Collective Agreement for the Civil Service (TVöD)

Place of employment: Garching (near Munich)

Forschungszentrum Jülich aims to employ more women in this area and therefore particularly welcomes applications from women.

We also welcome applications from disabled persons.

We are looking forward to your application, ideally online, quoting the **reference code 2012-315**. This job offer is available on our career website www.fz-juelich.de/careers.

contact:

Barbara Kranen
phone: +49 2461 61-9700
www.fz-juelich.de



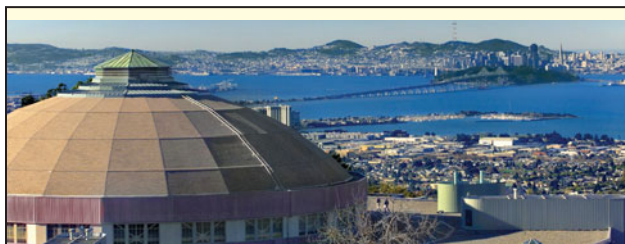
DEPARTMENT CHAIR Physics

The Physics Department at The University of Akron seeks a visionary and dynamic academic leader to serve as Department Chair. With PhD programs in Chemistry, Engineering, and Polymer Science on campus, and the support of the administration, the Physics program has an opportunity to become a significant player in the future of The University of Akron through its Vision 2020 Strategic Plan. The department offers BS and MS degrees in Physics and a PhD degree in Chemical Physics in conjunction with the Department of Chemistry and is committed to transforming its programs to include materials/engineering/applied physics.

A PhD degree in Physics or a related field is required, along with qualifications supporting appointment at the rank of professor at The University of Akron. In addition, applicants must have a proven track record in providing leadership in an academic and/or research setting; a record of distinction in research; excellent inter-personal and communication skills; a track record of substantial external research funding; demonstrated excellence in teaching; and the ability to teach upper-level courses in Physics. Preference will be given to candidates with prior administrative experience in an academic setting, as well as to those working in an area related to materials/engineering/applied physics, who could be considered for a joint appointment in another department/college. Salary and start-up package will be commensurate with experience.

For complete details and to apply for this position, visit <http://www.uakron.edu/jobs/>, Job #7233. Review of applications will begin **January 7, 2013** and continue until the job is filled. The preferred start date is July 1, 2013. Inquiries should be addressed to Dr. Joseph Wilder at wilder@uakron.edu.

The University of Akron is committed to a policy of equal employment opportunity and to the principles of affirmative action in accordance with state and federal laws.



Materials Scientist - Membranes - 75280
Organization: MS-Materials Sciences

The Joint Center for Artificial Photosynthesis (JCAP) seeks a Staff Scientist who will focus on the development of membranes that will facilitate ion transport and block gas back diffusion in the composite solar-fuel device. JCAP is a Solar Fuels Innovation Hub recently funded by the Department of Energy (\$122M, 5 years, renewable) with physical location of their major partners, Caltech (South) and LBNL (North). The incumbent will take major responsibility for the Synthesis and Gas Transport testing facilities within the Membrane project located at JCAP North Site in Berkeley. The demands of the solar fuel device require a mechanically and chemically robust ion exchange membrane with significantly higher gas blocking properties than other applications of similar polymeric membranes. The incumbent will be responsible for synthesis of the polymers, membrane fabrication, and analysis of the relationship between molecular architecture, membrane morphology, and properties.

The position offers a unique opportunity for the researcher to assume a key role at the inception of the Lab and the JCAP research effort.

For a detailed position description and instructions regarding how to apply, please visit www.lbl.gov, access the careers page and reference **job number 75280**.



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



Portland State
 UNIVERSITY

Microscopist and Facility Manager
Center for Electron Microscopy

The Center for Electron Microscopy at Portland State University is currently accepting applications for a Microscopist and Facility Manager. The responsibilities of this position include the management, operation, and maintenance of the microscopes in the laboratory. The incumbent will train and assist faculty, students, and outside users. This position will supervise an Assistant Manager, an accounting assistant, and a laboratory technician, as well graduate assistants and student workers. The Facility Manager will develop strong ties with other research laboratories in both academic and industrial settings in the region.

For a detailed job description and instructions on how to apply, please visit our website at <http://www.pdx.edu/hr/sites/www.pdx.edu.hr/files/RSP%20CEM%20Manager%20CEMN%20Laboratory%20D94200.pdf>.

Portland State University is an Affirmative Action, Equal Opportunity Institution and welcomes applications from diverse candidates and candidates who support diversity.



UMASS
 AMHERST

Faculty Position
in Materials Engineering

The Department of Mechanical and Industrial Engineering (MIE) at the University of Massachusetts Amherst invites applications for a tenure track position in the area of materials engineering. The appointment is at the rank of assistant, associate or full professor. Faculty members are expected to teach both undergraduate and graduate courses, supervise graduate students and postdoctoral fellows, contribute significantly to the advance of basic science and engineering as evidenced by scholarly publications, and develop a nationally recognized program of sponsored research. Applicants specializing in an approach consistent with the Materials Genome Initiative¹ through computational or experimental methods, and those with research applicable to biomaterials and energy materials are especially encouraged. In addition, where appropriate, the new faculty will participate in the development of new graduate programs within the College of Engineering.

The Department of Mechanical and Industrial Engineering has 25 full-time faculty members, over 130 graduate students, and over 650 undergraduates. Research expenditures exceeded \$4.7M in the last fiscal year. A number of institutes and centers provide outstanding opportunities for faculty, including the Pioneer Valley Life Sciences Institute, the Institute of Cellular Engineering, Baystate Medical Center, the University of Massachusetts Medical School, the Center on Polymer-Based Materials for Harvesting Solar Energy, the Energy Frontier Research Center, NSF Center for Hierarchical Manufacturing, NSF Materials Research Science and Engineering Center, the NSF Center for e-Design, the Institute for Massachusetts Biofuels Research, the Center for Energy Efficiency and Renewable Energy, and the Wind Energy Center. In addition, the Department has an NSF IGERT in wind energy which will fund 24 doctoral students over 5 years.

The University of Massachusetts is situated 90 miles west of Boston in the vicinity of four liberal arts colleges offering exceptional and diverse cultural and recreational opportunities.

Minimum Qualifications: Applicants must have a PhD in materials science, mechanical engineering, or a closely related field (degree by September, 2013).

To apply, candidates should provide the following in their application package: 1) Statement of interest, teaching and research qualifications, description of research goals, and a discussion of how the candidate's experience would add to existing departmental and university strengths. 2) Current curriculum vitae. 3) Representative recent original research articles. 4) Full contact information for at least four references. Review of applications will begin immediately and continue until a suitable candidate is identified. Applications should be submitted via email in single PDF file: miedept@ecs.umass.edu.

The University of Massachusetts Amherst is an Affirmative Action/Equal Opportunity Employer. The Department, College, and University have a strong commitment to diversity. Women and members of minority groups are encouraged to apply.

¹http://www.whitehouse.gov/sites/default/files/microsites/ostp/materials_genome_initiative-final.pdf

**ASSISTANT | ASSOCIATE PROFESSOR**
(Tenure-Track Or Tenured Faculty Position)Departments of Materials Science
and Engineering and Mechanical Engineering

The Departments of Materials Science and Engineering (<http://www.mse.umd.edu>) and Mechanical Engineering (<http://www.enme.umd.edu>) at the University of Maryland, College Park, seek outstanding individuals for tenured/tenure-track faculty position(s) in the areas of computational materials science, first principles methods to materials design, multi-scale modeling methods, and/or computational micro-/nano-mechanics.

Successful applicants will have a PhD degree in Materials Science and Engineering, Mechanical Engineering, or a related discipline. We seek candidates who can transcend traditional boundaries and establish a vibrant research and teaching program at the University of Maryland. The tenure home can be either in materials science and engineering or mechanical engineering. Academic rank is open depending on qualifications, but we expect at least one position to be filled at the junior faculty level. Women and minorities are particularly encouraged to apply. For best consideration, applications should be received by **January 24, 2013**. However, the position will remain open until it is filled.

A cover letter, curriculum vitae, a statement of research and teaching interests, and names of at least three professional references should be submitted electronically to <http://jobs.umd.edu>; **position number 118718**.

Questions about the position can be directed to the Chair of the Search Committee, Prof. Lourdes Salamanca-Riba, by email at riba@umd.edu or by phone at 301-405-5220.

The University of Maryland, College Park, actively subscribes to a policy of equal employment opportunity, and will not discriminate against any employee or applicant because of race, age, sex, color, sexual orientation, physical or mental disability, religion, ancestry or national origin, marital status, genetic information, or political affiliation. Minorities and women are encouraged to apply.

Paid Undergraduate Program**Sustainable Materials Research Training (SMaRT) Camp**

June 24-August 16 2013

The CSMC Summer Research Program for undergraduates is a 9 week summer research program in sustainable materials science. Research positions are available in Chemistry, Physics, and Engineering. At the start of the summer, students attend a one week tutorial called the Sustainable Materials Research Training (SMaRT) Camp at the University of Oregon. After SMaRT Camp, students perform cutting edge research at one of the CSMC host labs.

Students receive a \$4000 stipend

For more information and to apply online:
<http://sustainablematerialschemistry.org/node/2857>

CSMC  center for sustainable materials chemistry**THE UNIVERSITY OF ALABAMA****FACULTY POSITION** Computational Modeling in Materials Engineering

The Department of Metallurgical and Materials Engineering (mte.eng.ua.edu) at The University of Alabama seeks applications and nominations for a tenure-track position in the area of computational modeling in materials science and engineering. This hire will strengthen the department's core materials research and teaching areas of processing, phase transformations, and mechanical properties. Expertise in all length-scales of modeling, as well as integrated multiscale modeling, will be considered.

Candidates will have full access to the computational resources at the Alabama Supercomputer Center (www.asc.edu). The University of Alabama offers many opportunities to work within interdisciplinary research communities including the Center for Materials for Information Technology (mint.ua.edu) and the Center for Advanced Vehicle Technology (cavt.eng.ua.edu). Additionally, departmental faculty are actively involved in utilizing the Micro-Fabrication Facility (uamicro.ua.edu) and the Central Analytical Facility (caf.ua.edu) which offer cutting edge research tools that can be used to validate and verify linkages between experiments and modeling. The successful candidate will be expected to develop a strong, externally-funded research program and to teach undergraduate courses in all areas of metallurgical and materials engineering as well as develop and teach graduate courses in the individual's areas of specialty.

The University of Alabama is experiencing an unprecedented level of growth and prosperity, including significant increases in undergraduate and graduate enrollment within the college of engineering. In June 2013, the final phase of a \$250M four building science and engineering research complex will be completed giving faculty members access to state-of-the-art facilities for materials research.

Applicants must have earned a doctorate and should have one or more degrees in metallurgy and/or materials science and engineering. Appointments will be tenure-track at the assistant or associate level depending on qualifications. An August 15, 2013 start date is desired. Applicants must submit a cover letter, complete curriculum vitae, a research statement (up to five pages) that outlines planned areas of pursuit, teaching statement (up to three page limit) that captures teaching philosophy along with course topics of interests, and a list of at least three references which includes all relevant contact information. Applicants are required to apply electronically at <https://facultyjobs.ua.edu/>, **job listing number 0807745**. For additional information regarding this position, please contact the search committee at mtedept@eng.ua.edu.

Review of applications will begin immediately and will continue until the position is filled.

The University of Alabama is an equal opportunity/affirmative action/ Title IX, Section 504, ADA employer.



DIRECTOR • School of Mechanical & Materials Engineering

The College of Engineering and Architecture at Washington State University invites applications and nominations for the position of Director, School of Mechanical and Materials Engineering. A PhD degree in Mechanical Engineering, Materials Science and Engineering, or a closely related field is required. Candidates should have demonstrated leadership ability and strong records in research and teaching. The position is at the rank of professor with tenure. An individual with proven commitments to innovative programs in interdisciplinary research, and the advancement of undergraduate and graduate education to a diverse student body is desired. The candidate should have demonstrated ability to cultivate relationships with industry and alumni that benefit teaching, research, and outreach programs. The successful candidate must have exceptional communication and interpersonal skills. Salary is negotiable, commensurate with qualifications and experience.

The School of Mechanical and Materials Engineering has a total of 34 faculty at the main Pullman campus and branch campuses at Tri-Cities, Everett, and Bremerton. In aggregate, there are 970 undergraduates and 146 graduate students. The School maintains comprehensive research and offers BS, MS, and PhD degrees in Mechanical Engineering and Materials Science and Engineering. The School maintains active research programs in many leading edge technologies and has excellent facilities. This position is part of WSU's priority to build a diverse faculty and, as such, female and minority candidates are strongly encouraged to apply. WSU has faculty friendly policies including partner accommodation and on-site childcare. Additional information may be found at the School's website <http://www.mme.wsu.edu>.

An application should include a letter describing relevant experiences and interest in the position; a resume; a statement of leadership vision, research plans, teaching experience, and interests; and the names of five references with titles, addresses, business telephone numbers, and e-mail addresses. References will not be contacted without consent from applicants. **The application must be submitted online at www.wsujobs.com/applicants/Central?quickFind=57789.**

Individuals who wish to nominate a candidate should submit a letter of nomination to MME.search@wsu.edu.

Screening of applicants will begin **January 15, 2013** and continue until the position is filled.

WSU is an EEO/AA Employer. Protected group members are encouraged to apply.



FACULTY POSITION Nuclear Engineering Program

The Nuclear Engineering Program in the College of Engineering at the University of Florida invites applications for a tenured/tenure-track position at the rank of Assistant, Associate, or Full Professor. While the search is open to any area of nuclear engineering, preference will be shown to candidates in the following areas of specialization: reactor core physics, instrumentation and control, nuclear fuels and fuel cycle, nuclear materials, and radiochemistry. Successful candidates should also demonstrate the potential to collaborate with current faculty in the Nuclear Engineering Program and Department of Materials Science and Engineering.

The Nuclear Engineering Program is undergoing a major revitalization and expansion within the Department of Materials Science and Engineering. We recently hired three new faculty members, and a search is underway for a new program director. The Nuclear Engineering Program offers an ABET-accredited BS degree in Nuclear Engineering and MS and PhD degrees in Nuclear Engineering Sciences. We anticipate that the successful applicant will continue the traditions of teaching, research, and service that support our academic pursuits at both the undergraduate and graduate levels.

The Nuclear Engineering Program was integrated into the UF Department of Materials Science and Engineering (MSE) in 2011. This unique configuration provides a vibrant, multidisciplinary, highly collaborative environment. The department includes 35 faculty members, over 250 graduate students, over 340 undergraduates (undergraduates are approximately equally split between the NE and MSE programs), and over \$12 million in annual research expenditures. Our faculty research activities are essential to the success of our programs; as such, new members of our faculty are expected to initiate and sustain strong sponsored research and graduate training programs.

The search committee will begin reviewing applications immediately and will continue to receive applications until the position is filled. To be considered you must apply by submitting an application through the jobs website at UF <https://jobs.ufl.edu/apply>, **reference position number 00009568** and attach the following required documents: curriculum vitae, statement of research and teaching interests, and contact information for three references.

In addition, PDF files of the application package should be e-mailed to Ms. Venice Walker at venice@mse.ufl.edu. For additional information about the Department and University, please visit our Web site at <http://www.mse.ufl.edu>.

The University of Florida is an Affirmative Action, Equal Opportunity Employer and encourages applications from women and minority group members. According to Florida law, applications and meetings regarding applications are open to the public on request. We are dedicated to the goal of building a culturally diverse and pluralistic faculty committed to teaching and working in a multicultural environment; we strongly encourage applications from women, members of underrepresented groups, individuals with disabilities, and veterans.



Tenure-Track/Tenured Faculty Position

Mechanical and Aerospace Engineering

The Department of Mechanical and Aerospace Engineering (<https://mech.rutgers.edu>) at Rutgers University invites applications and nominations for a tenure-track/tenured faculty position at the Assistant, Associate, or Full Professor level beginning in September 2013. Candidates with expertise in **Aerospace Systems** including automated optimal design in aerospace systems, satellite dynamics and control; **Advanced Manufacturing** including design of multi-functional material systems; and **Human-Centered Design** including design and manufacturing of robotic assistive devices 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 our Mechanical and Aerospace Engineering undergraduate and graduate programs is also expected. The candidate must hold an earned doctorate in 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 140 graduate students. The MAE Department is one of the seven academic units of the School of Engineering, which is located at Rutgers-New Brunswick immersed on a culturally and academically diverse environment with more than 3,800 full-time faculty, 4,500 graduate students, and 27,000 undergraduate students.

Please submit your application at <https://secure.interfolio.com/apply/20871>. 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.

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.



Faculty Positions

Metals and Ceramics Processing

The School of Materials Science and Engineering (MSE) at the Georgia Institute of Technology (GT) is seeking to add tenure-track faculty in the areas of **metals and ceramics processing** (as described below). While preference will be given to candidates at the Assistant Professor level, applicants with exceptional records of creativity, originality, and excellence will also be considered at the Associate and Full Professor levels. Further details regarding qualifications for these positions can be found at <http://www.mse.gatech.edu/faculty-staff/faculty-positions>.

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 metallurgy or ceramics 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, the Manufacturing Institute, and the Strategic Energy Institute.

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/faculty-staff/faculty-positions>. Applications will be considered until the positions are filled. The selection process will include passing a pre-employment background screening.

Georgia Tech is an Equal Opportunity/Affirmative Action Employer.



FACULTY POSITIONS

Materials Science and Engineering

The Faculty of Engineering at Tel-Aviv University (TAU) invites outstanding applications for new faculty at the ranks of Senior Lecturer or Associate Professor (tenure-track), or Professor (tenured).

Faculty with expertise in the following areas are of particular interest, although outstanding scholarship will be the key criterion in selection:

- Crystallography and advanced materials characterization (with preference to transmission electron microscopy and diffraction techniques)
- Computational materials science
- Materials synthesis and processing
- Physical metallurgy (including phase transformation and diffusion in solids)
- Materials for advanced energy systems
- Nanomaterials and nanotechnologies (with preference to cross-disciplinary research)
- Mechanical characterization of structural materials
- Advanced polymers, ceramics and composites
- Functional materials

The successful applicant will run a world-class research program, offer undergraduate and graduate courses in materials science and engineering, have excellent communication skills, and have a strong commitment to university service. Cross-disciplinary research activities engaging faculty from different academic units at TAU are encouraged. Senior candidates must have international standing, an exceptional record of publishing and external funding, and a demonstrated record of scientific leadership. Junior candidates must demonstrate promise towards similar achievements.

Applicants should submit an application packet containing a cover letter with complete contact info, a detailed curriculum vitae with a list of publications, their best three peer-reviewed (or in review) manuscripts, a research plan (including the planned lab and the start-up package required to assemble it), a teaching statement, and the names and contact information of at least three internationally acclaimed references.

All applications should be submitted electronically to the Search Committee Chair, Prof. Noam Eliaz, by e-mail at neliaz@eng.tau.ac.il. Please submit PDF files only. **A limited number of positions will be kept open until filled**, but priority will be given to applications received before December 31, 2012.