

TENURE-TRACK FACULTY POSITIONS

Experimental Materials Science

The Department of Physics invites applications for two tenure-track faculty positions to begin in August 2015. An Assistant Professor is sought in Materials Science with preference in energy-related materials. A second position, either at the Assistant or Associate Professor-level, is open in the general field of Materials Characterization.

Applicants should indicate the position and level they are applying for in their cover letter and submit it, using the online application link, together with a teaching philosophy statement, and a research plan. The Online Application link is available at <http://www.usf.edu/about-usf/work-at-usf.aspx>.

Associate Professor applicants must have an established research program with evidence of grant support. The candidate should also arrange for three letters of recommendation to be sent to phymaterialsearch@usf.edu. Applications completed by **December 15, 2014** will receive full consideration.

The University of South Florida is a high-impact, global research university dedicated to student success. USF ranks 50th in the nation for federal expenditures in research and total expenditures in research among all U.S. universities, public or private, according to the National Science Foundation. Serving more than 47,000 students, the USF System has an annual budget of \$1.5 billion and an annual economic impact of \$3.7 billion. USF is a member of the Big East Athletic Conference. According to Florida Law, applications and meetings regarding them are open to the public. For ADA accommodations, please contact Daisy Matos at dmatos@usf.edu at least five working days prior to need.

USF is an Equal Opportunity Institution.



DEPARTMENT CHAIR

Department of Aerospace and Mechanical Engineering

The Department of Aerospace and Mechanical Engineering at the University of Southern California is seeking applications and nominations for the position of Department Chair. The candidate must have an outstanding record of scholarly and technical achievements, a strong commitment to engineering education, effective management and interpersonal skills, and must be eligible for appointment at the full professor level. Exceptionally strong candidates will also be considered for appointment to an endowed professorship. A PhD degree in aerospace or mechanical engineering or a related field is required. Applications should be received preferably by **January 10, 2015**. Information about the department can be found at <http://ame-www.usc.edu>.

Interested candidates should prepare an application package consisting of their personal contact information; a curriculum vitae; a cover letter describing their technical qualifications, thoughts on leadership, and their vision of the field in the future; and contact information for at least four professional references. All material in the application package is to be submitted electronically at <http://ame-usc.edu/facultypositions/>.

Inquiries should be directed to the Search Committee Chair, Prof. Lucio Soibelman at soibelman@usc.edu.

USC is an equal-opportunity educator and employer, proudly pluralistic, and firmly committed to providing equal opportunity for outstanding persons of every race, gender, creed, and background. The University particularly encourages women, members of underrepresented groups, veterans, and individuals with disabilities to apply. USC will make reasonable accommodations for qualified individuals with known disabilities unless doing so would result in an undue hardship. Further information is available by contacting uschr@usc.edu.



THAYER SCHOOL OF
ENGINEERING
AT DARTMOUTH

TENURE-TRACK FACULTY POSITION

Energy-Related Materials

The Thayer School of Engineering at Dartmouth seeks to hire a faculty member in the area of material science and engineering who can contribute to a distinctive research and education program addressing innovative technological responses to societal energy challenges. The successful candidate will have a doctorate in materials science, engineering, or a closely related field, will show promise of leading an externally-funded research program targeting transformational advances in energy conversion and/or utilization, and will be a gifted teacher with motivation and expertise that complements the Thayer School's interdisciplinary approach to engineering education.

We are open to various research foci within the materials field, with areas of interest including but not limited to photovoltaic energy conversion, energy storage, and enabling computational approaches. The position is open with regard to rank. The Thayer School of Engineering is planning a significant expansion of faculty and programs. This position is anticipated to be one of the first of several hires in the Energy area.

Review of applications will begin **January 1, 2015**. A complete CV, statement of research and teaching interests, and contact information for three references should be sent as a PDF via email to Thayer.Energy.Materials.Search@dartmouth.edu.

Dartmouth is a member of the Ivy League and consistently ranks among the world's greatest academic institutions. Home to a celebrated liberal arts curriculum and pioneering professional schools, Dartmouth has shaped the education landscape and prepared leaders through its inspirational learning experience. The College has forged a singular identity, combining its deep commitment to outstanding undergraduate liberal arts and graduate education with distinguished research and scholarship in the Arts and Sciences and its three leading professional schools—Geisel School of Medicine, Thayer School of Engineering, and Tuck School of Business. For more information see <http://engineering.dartmouth.edu>.

Dartmouth College is an Equal Opportunity and Affirmative Action Employer. We welcome applications from and will extend equal opportunity to all individuals without regard for gender, race, religion, color, national origin, sexual orientation, age, disability, handicap, or veteran status.



国际能源系统与材料中心
Center for Clean Energy Systems & Materials



PROFESSOR AND ASSOCIATE PROFESSOR

Clean Energy Systems and Materials, Beihang University

As part of Beihang's further pursuit for excellence in research and education, Beihang is undertaking a global search for the best research talent to join Beihang's International Research Institute for Multidisciplinary Science. The Center for Clean Energy Systems and Materials (CCESM) is currently recruiting outstanding faculty and research scientists to join this effort. CCESM focuses on non-fossil fuel clean energy, with emphasis in the following areas:

- Wind energy (blade design, material testing, adhesive joints and life prediction, health monitoring, and new materials, including nano-reinforced materials)
- Solar energy (new materials and technology solutions for solar energy conversion)
- Materials for clean energy systems (nanocomposites, CNT, novel materials for large scale wind turbine blades, development of bio-based structural foams, and composites)
- Energy Storage (large and medium to small scale energy storage for renewable energy systems)
- Natural fiber composites

We are recruiting "Youth Thousand Talent Plan" and "Excellent 100 Program" Scholars at the professor and associate professor levels. Successful candidates will be provided with competitive salary and start-up packages. For additional information for these positions please visit our website at <http://cleanenergy.buaa.edu.cn/>.

Minimum qualifications for these positions include:

- PhD degree in Engineering, Material Science, and other Clean Energy Systems and Materials related disciplines. Preference is given to candidates with graduate degrees from universities/experience outside of China.
- A strong publication record (8+ international journal publications)
- 3+ years of postdoctoral research/faculty positions in research institutions outside of China.
- Candidates must be below 40 years of age to qualify.

Interested individuals should send a cover letter, CV, and research plan to the following individuals:

- Professor John W. Holmes
CCESM Director
jwholmes@buaa.edu.cn
- Professor Chia-Chin Cheng
Associate Director of Research
cccheng@buaa.edu.cn



FACULTY POSITIONS

Center for Condensed Matter Sciences
National Taiwan University

The Center for Condensed Matter Sciences, as a premiere research center at the National Taiwan University, has immediate openings for tenure-track faculty positions. Rank of faculty positions will match the candidates' qualifications. Applicants with excellent credentials in cutting edge condensed matter research fields, such as emerging materials or advanced spectroscopic and microscopic techniques, in both fundamental 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 31, 2014.

TENURED AND TENURE-TRACK FACULTY POSITIONS

School of Materials Science and Engineering | Xi'an Jiaotong University

The School of Materials Science and Engineering (SMSE), Xi'an Jiaotong University (XJTU), invites applications for multiple new faculty positions (assistant professor, associate professor, and professor). As a "211" and "985" school, XJTU is one of the top universities in China, with a dynamic research atmosphere. The university is planning to make unprecedented investments, emphasizing cutting-edge research and innovations, to attract world-class researchers to its ranks.

SMSE has 103 full-time faculty and staff, and over 700 full-time and part-time graduate students in three academic departments—the Department of Materials Science, the Department of Materials Physics and Chemistry, and the Department of Materials Processing Engineering. It is experiencing very rapid growth in new programs, faculty, research funding, and space.

All the successful candidates must have a doctorate degree in Materials Science and Engineering or closely related fields. They will hold tenured (or tenure-track, for assistant professors) appointments at SMSE and receive sizable start-up research grants from XJTU. Salary and compensation will be commensurate with experience and at a level competitive with similar positions in the US.

Review of applications will begin immediately, and will continue until the positions are filled. The application package should include a CV, a list of publications, and a short summary of previous and planned research activities. Three (3) Letters of Reference should be arranged to be sent directly to:

Ms. Xiaohua Cheng
School of Materials Science and Engineering, Xi'an Jiaotong University
28 West Xianning Road, Xi'an, Shaanxi 710049, P.R. China
xiaohuacheng@mail.xjtu.edu.cn

Further information is available at <http://mse.xjtu.edu.cn/en>.

No special consideration will be given based on gender, nationality, or ethnic background.



西安交通大学
XI'AN JIAOTONG UNIVERSITY



材料科学与工程学院
School of Materials Science and Engineering



VirginiaTech
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FACULTY

Materials Science and Engineering
Virginia Polytechnic Institute and State University

The Department of Materials Science and Engineering (MSE) at Virginia Tech seeks applications to fill a senior level tenure-track faculty position at the Associate/Full Professor level. A doctoral degree or equivalent in a relevant area of materials science and engineering is required. Candidates with backgrounds and accomplishments in radiation hardened devices/sensors, nuclear security, and/or nuclear medical applications are especially encouraged to apply.

Applicants should apply at www.jobs.vt.edu to posting number **TR0140112**. Initial review of applications will begin on **December 15, 2014**, and will continue until the position is filled. The anticipated start date for this position is August 2015.

Virginia Tech is an Equal Opportunity/
Affirmative Action Employer



ASSISTANT PROFESSOR

Materials Science Engineering & Mechanical Engineering

Search Number: AA8844

W
UNIVERSITY of
WASHINGTON

The Department of Materials Science Engineering (MSE) and the Department of Mechanical Engineering (ME) at the University of Washington invite applications for **two full-time tenure-track faculty positions** (9-month service periods) that will be jointly appointed in two departments. These positions are also aligned with the newly funded Clean Energy Institute (CEI). We are primarily focused on hires at the rank of Assistant Professor although individuals with exceptional credentials may be considered at the rank of Associate Professor.

Applicants must have a PhD or foreign equivalent doctorate degree in Materials Science Engineering, Mechanical Engineering, or related discipline by the date of appointment. These candidates should have a demonstrated track record in the interdisciplinary research field of MSE and ME with expertise in broadly defined Advanced Manufacturing. Areas of particular interest include, but are not limited to, new and innovative materials, processes, and characterization; design, controls, and operations for manufacturing; additive manufacturing; and roll-to-roll printing for novel applications in electronic, photonic, and energy-related fields.

Successful applicants will be expected to further strengthen MSE and ME's collaborations with the CEI and other departments and provide innovative and quality teaching that integrates research with instruction. They will be expected to teach both undergraduate and graduate courses within the two departments, to develop high quality interdisciplinary research programs, and to position the departments to better serve the needs of companies at the state, national, and international levels. University of Washington faculty engage in teaching, research, and service.

INFORMATION ABOUT THE DEPARTMENTS:

- The MSE Department currently has 18 faculty, 137 undergraduates, 100 graduate students, and 25 postdoctoral researchers. The Department's research portfolio covers all classes of materials and state-of-the-art facilities are available in the Department and in interdisciplinary research centers on the campus. More information about the Department is available at <http://depts.washington.edu/mse/>.
- The ME Department currently has 29 faculty, 312 undergraduates, 120 master's students, 95 PhD students, and 28 postdoctoral researchers. The Department's research and teaching portfolio covers all aspects of the broad field of mechanical engineering, including interdisciplinary work in advanced manufacturing, alternative energy, robotics and controls, and engineering in medicine. More information about the ME Department is available at <http://www.me.washington.edu/>.
- CEI, the UW Clean Energy Institute is accelerating the creating of a clean energy economy and will grow the state of Washington's capacity to sustain our economy and the environment. We are accomplishing this by recruiting top faculty and students, investing in state-of-the-art research equipment, and partnering with other research institutions, educational programs, and industry partners. Please explore the links to learn more about the Clean Energy Institute at <http://www.cei.washington.edu>.

HOW TO APPLY:

Applications should include a cover letter, curriculum vitae with a complete list of publications, a statement of research and education goals, names and contact information for at least three references, and copies of three (3) selected publications. Please submit all applications at: www.engr.washington.edu/facsearch/apply.phtml?pos_id=163.

Review of applications begins immediately and priority will be given to applications received by **December 15, 2014**. The process remains open until the position is filled.

Additional questions may be addressed to Lucia Petersen, luciap@uw.edu (ME) or Jay Montague, montague@uw.edu (MSE).

The University of Washington is an affirmative action and equal opportunity employer. All qualified applicants will receive consideration for employment without regard to, among other things, race, religion, color, national origin, sex, age, status as protected veterans, or status as qualified individuals with disabilities. UW is the recipient of a National Science Foundation ADVANCE Institutional Transformation Award to increase the participation of women in academic science and engineering careers. UW is the recipient of the 2006 Alfred P. Sloan award for Faculty Career Flexibility and is committed to supporting the work-life balance of its faculty.



FACULTY POSITIONS

School of Materials Science and Engineering
Northwestern Polytechnical University

The School of Materials Science and Engineering at Northwestern Polytechnical University, one of the **TOP THREE** disciplines in materials science and engineering in China, invites applications for faculty positions at the professor level (including "Thousand Professor" and "Youth Thousand Professor").

Applicants must hold an earned doctorate in materials science and engineering or a closely related discipline. Candidates should demonstrate exceptional promise for high-quality research, teaching, and professional development in the following areas:

- Advanced materials: metals, composite materials, nano-materials, energy materials, bio-materials;
- Materials processing and engineering;
- Computational materials science: materials genome, etc.

Highly qualified candidates in other areas of materials science and engineering will also be considered.

We provide:

- Research funding no less than 5 million RMB
- Annual salary no less than 350,000 RMB
- Lab space of 100-200m²
- Living house no less than 135m²
- The best kindergarten, primary school, middle school, and high school for children in Xi'an

Applicants should submit the following documents via email at yuan4@nwpu.edu.cn. Applications will be considered until positions are filled.

1. a curriculum vitae
2. three representative papers
3. three references (including names and contact information)
4. research plan

For more information and questions, please visit <http://cailliao.nwpu.edu.cn/en/index.htm>.



Jefferson Science Fellowship The National Academies



The National Academies is pleased to announce a call for nominations and applications for the 2015 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, D.C. 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 2015-2016 program year applications/nominations is **January 12, 2015**. To learn more about the Jefferson Science Fellowship and to apply, visit the JSF website at www.national-academies.org/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



FACULTY POSITIONS

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 **tenured faculty positions in the broad areas of materials science and engineering, materials chemistry, or materials physics**. 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 a list of publications, their teaching experience and interests, and a synopsis of a proposed program of research. Candidates for tenured positions must have achieved national and international recognition for their scholarship. Applicants will be contacted by the search committee to provide the names of references when needed.

Qualified senior candidates will be considered for endowed professorships and chairs 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. More information regarding the Grainger Initiative can be found at <http://graingerinitiative.engineering.illinois.edu>.

The Department presently has 25 faculty and approximately 400 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 Supercomputing 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 August 16, 2015. To ensure full consideration, applications must be received no later than **February 15, 2015**. 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 these positions, please create a candidate profile at <http://jobs.illinois.edu> and upload your letter of application and CV **no later than February 15, 2015**. For any questions concerning the application process, please call 217-333-1440 or e-mail mse@illinois.edu.

Illinois is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, religion, color, national origin, sex, age, status as a protected veteran, or status as a qualified individual with a disability. Illinois 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>).

DEPARTMENT CHAIR

Materials Science & Engineering | University of North Texas



The University of North Texas seeks outstanding applicants for the Chair of the Materials Science and Engineering (MTSE) Department within its College of Engineering. The Department is committed to educating superior undergraduate and graduate materials scientists and engineers through innovative teaching and cutting edge research. The MTSE department has 18 full time faculty, approximately 110 undergraduates, and 100 graduate students. The department collaborates extensively with the UNT Center of Advanced Research and Technology which houses an impressive suite of characterization and processing instrumentation (<http://research.unt.edu/cart/cart-facilities>).

Applicants must have an earned doctorate relevant to a program in materials science and engineering with at least one earned degree in materials science and engineering; academic achievements commensurate with a tenured appointment at the rank of Full Professor within MTSE; a strong track record of sustained excellence in research including extramural funding and an appreciation of an academic research culture; and a commitment to diversity and inclusiveness.

The University of North Texas is an EOE/AA/ADA employer committed to diversity in its educational programs.

PREFERRED QUALIFICATIONS INCLUDE:

- Effective leadership experience as a department chair or director of a significantly-sized center or institute within the materials science and engineering discipline.
- Experience with US educational institutions as either a student or as a faculty member.
- Success in recruitment, mentoring, and retention of faculty and students.
- Experience in developing and sustaining internal and external partnerships in education and research.
- Commitment to shared governance in a consensus-oriented manner and an ability to work effectively with faculty across disciplines in a collegial manner.
- Effective support for academic programs, research, and professional development.
- Experience in management of financial resources.
- Knowledge of accreditation standards and procedures.
- A record of valuing and engaging in effective strategic planning and organizational adaptation.

Applicants are sought at the Full Professor level. Salary, benefits, and a teaching load typical for a major research university can be expected. Applicants must submit their application through <http://facultyjobs.unt.edu>. Nominations of candidates should be sent directly to Dr. Rick Reidy, Search Committee Chair at reidy@unt.edu. Screening of applications will begin on **December 1, 2014** and will continue until the search is closed.



TENURE-TRACK FACULTY POSITION

Materials Engineering

The Materials Research and Education Center at Auburn University seeks an outstanding individual for a tenure-track faculty position in the Samuel Ginn College of Engineering. Candidates will be considered at the assistant, associate, and full professor levels. Candidates are sought that enhance strategic areas targeted by the department for growth. In particular, emphasis will be placed on applicants with a record of research accomplishments in: (1) Microfluidics/Biosensing, (2) Additive Manufacturing, and (3) Energy Generation, Conversion & Storage.

The successful candidate will be expected to establish a strong individual research program in one of the above areas. Associate level applicants and higher must demonstrate an active nationally and internationally recognized program. The candidate will be expected to participate in large-scale, multidisciplinary team efforts in one of the above areas. The appointee will teach both undergraduate and graduate courses in materials engineering and develop innovative, cross-disciplinary instructional activities.

The successful candidate must be professionally trained in materials science and engineering and hold a PhD from an accredited institution. The intended start date is January 1st, 2015. Applications will be accepted until the position is filled. The review of applications will begin October 6, 2014. A link to the posting and application can be found at <http://aufacultypositions.peopleadmin.com/postings/609>.

The candidate selected for this position must be able to meet eligibility requirements to work in the United States at the time appointment is scheduled to begin, and must continue working legally for the proposed term of employment.

Auburn University is an Affirmative Action/Equal Opportunity Employer. It is our policy to provide equal employment opportunities for all individuals without regard to race, sex, religion, color, national origin, age, disability, protected veteran status, genetic information, or any other classification protected by applicable law.

Auburn University is located in the City of Auburn, which was recently ranked in the top 10 nationally of Best Small Cities for Education as well as one of the top 10 places to live nationally. The university was chartered in 1856 and has an enrollment of approximately 25,000 students. It is ranked in the top 50 of public institutions. The picturesque main campus covers 1,875 acres and includes the entire southwest quadrant of the city of Auburn.