



FACULTY POSITION

The Department of Materials Science and Engineering at the University of Virginia solicits outstanding applicants for a tenure-track faculty position at the assistant professor rank. Opportunities exist to develop state-of-the-art capabilities for independent research, experimental or theoretical/computational, for interdisciplinary collaborations with existing faculty members, and to initiate new research initiatives focused on electronic, magnetic/spintronic, or optical nanomaterials.

The successful candidate will possess a doctoral degree in either materials science and engineering or a closely related field. The successful candidate will demonstrate the ability to develop a world-class, sponsored-research program centered on MS and PhD students and have a strong commitment to excellence in teaching at the undergraduate and graduate levels in materials science and engineering. We seek a candidate who will initiate new areas of research and teaching in the nanoscale synthesis, characterization, and/or properties of functional and multifunctional materials relevant to applications including, but not limited to, logic, energy, sensing or photonics. Competitive candidates will enhance departmental strengths through research collaborations with existing MSE faculty members, and contribute broadly across disciplines in the School of Engineering and Applied Science.

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

Applications must be submitted on-line through JOBS@UVA at <https://jobs.virginia.edu> and reference **posting number 0614748**. The application closing date is **January 16, 2015**. Qualified candidates are required to include a letter of application, a detailed curriculum vitae, a statement of research plans, teaching philosophy and interests as well as contact information for at least three references. The anticipated starting date for this position is August 2015.

For additional information about the position, please contact Prof. Haydn Wadley at hw42z@virginia.edu. For questions regarding the application process, please contact Jeannie Reese at jsv7u@virginia.edu.



RESEARCH SCHOLAR

National Institute of Aerospace

The National Institute of Aerospace (NIA), located near NASA Langley, has an opening for a postdoctoral Research Scholar to work in the general area of damage mechanics of metallic materials. Successful candidate will develop and apply characterization methods to examine the initiation and evolution of damage processes in structural metallic materials under monotonic and cyclic loading. This work is focused on quantifying the effects of microstructure on damage processes; will work independently and in a multi-disciplinary team to develop multi-scale damage models to guide the design of new more damage tolerant aerospace materials. PhD degree in engineering or physical sciences; experienced with Electron Backscattered Diffraction (EBSD) electron microscopy, crystallography and microscopy and physical metallurgy of structural metallic materials.

NIA ranked 12th in Top 50 Best Non-Profit Companies to work for in the U.S.!

For more information and to apply, go to NIA's career opportunities site at www.nianet.org.

NIA is an equal opportunity/affirmative action employer. Women, members of minority groups, individuals with disabilities, and veterans are encouraged to apply.



Tenure-Track Faculty Position

Materials Science and Engineering

The Department of Mechanical Engineering & Materials Science at Washington University in St. Louis invites applications for a tenure-track faculty position in Materials Science and Engineering, with emphasis on identifying candidates with expertise in computational materials science, particularly at the micro-, meso-, or continuum-scale. Successful applicants must have an established record of excellence in their area of specialization and be qualified to teach core materials science and engineering courses at both the undergraduate and graduate level. The successful applicant will be expected to establish a vigorous, externally-funded research program, publish in peer-reviewed journals, mentor graduate students, teach at the undergraduate and graduate levels, and participate in department and University service. The current search is focused primarily at the Assistant Professor level, but appointment at more senior levels will be considered for distinguished candidates. Washington University is particularly interested in considering applications from members of groups underrepresented in science and engineering, including women, minorities, protected veterans, and persons with disabilities.

Materials Science and Engineering has been identified as an area of growth for the School of Engineering & Applied Science (SEAS) at Washington University, with an emphasis on materials for energy harvesting and storage, multifunctional materials, and biomaterials. Recent hires within SEAS, as well as in the departments of Physics and Chemistry, have contributed to a vibrant materials research community of more than 50 faculty members across the University. The successful applicant will be expected to conduct both independent and collaborative research and play an active role in the Institute of Materials Science and Engineering (imse.wustl.edu), an interdisciplinary, cross-school institute that promotes and coordinates materials research and educational activities at Washington University.

Washington University is committed to the principles and practices of equal employment opportunity and affirmative action. It is the University's policy to recruit, hire, train, and promote persons in all job titles without regard to race, color, age, religion, gender, sexual orientation, gender identity or expression, national origin, veteran status, disability, or genetic information. Employment eligibility verification will be required upon employment.

TO APPLY:

Applicants should send a curriculum vitae, statements of research plans and teaching interests and philosophy (each statement not to exceed 3 pages), and a list of at least three references (with telephone numbers and email addresses) by email as a single file in PDF format to: materials_search@seas.wustl.edu. Applications will be accepted at any time, and will be considered until the position is filled; evaluation will begin by **October 15, 2014**.



澳門大學
UNIVERSIDADE DE MACAU
UNIVERSITY OF MACAU



Academic Positions in the Institute of Applied Physics and Materials Engineering of the Faculty of Science and Technology

The University of Macau (UM) is inviting applications for academic positions at all ranks in the **Institute of Applied Physics and Materials Engineering** of the Faculty of Science and Technology.

► About the University of Macau

The University of Macau is the leading higher education institution in Macao, with English as its working language. In recent years, the University has been making great progress towards becoming internationally recognized for its excellence in teaching, research and service. With the beautiful new campus (20 times larger than the old one) becoming fully operational recently, the launch of Asia's largest residential college system, the establishment of new schools, and the increasing numbers of students and faculty members recruited from around the world, UM provides great potential and exciting new possibilities for growth and development.

► The Institute of Applied Physics and Materials Engineering

The Institute of Applied Physics and Materials Engineering within the Faculty of Science and Technology at the UM offers a well-balanced fundamental and applied research, which is a unique entity in bridging the gap between pure science and engineering. This Institute initially offers the PhD degrees. Under the aspiration of the University to excel in research, the Institute will position the University strategically in the frontier of applied physics and materials research. At its current stage, three focused research areas are identified, i.e., green energy materials, three-dimensional integrated system (e.g., 3D-IC), scattering physics and imaging technology and nano/quantum devices.

For information about the Faculty of Science and Technology, please refer to the website:
<http://www.fst.umac.mo/index.php>

► Qualifications

The candidates must have an earned PhD degree in related areas. Preference will be given to candidates with extensive research and teaching experience at the tertiary education level. To accord with the future development, candidates with specialization in related fields are preferred.

The selected candidates are expected to assume duty in August 2015 or earlier.

► Position and Remuneration

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

► Application Procedure

Applicants should visit <http://www.umac.mo/vacancy> for more details, and apply **ONLINE** at **Jobs@UM** (<https://isw.umac.mo/recruitment>) (Ref. No.: FST/IAPME/AR/09/2015). Review of applications will commence in October/November and continue until the positions are filled. Applicants may consider their applications not successful if they were not invited for an interview within 3 months of application.

Human Resources Office
University of Macau, Av. da Universidade, Taipa, Macau, China
Website: <https://isw.umac.mo/recruitment>; Email: vacancy@umac.mo
Tel: +853 8822 8578; Fax: +853 8822 2412

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

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

University of Macau - An ideal place to pursue your career

<http://www.umac.mo>




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 POSITION

CONDENSED MATTER PHYSICS



The Department of Physics at Emory University invites applications for a tenure-track faculty position at the assistant professor level in theoretical or experimental Condensed Matter Physics, to begin in September 2015. This position is part of a strategic expansion of this research area at Emory University. We are particularly interested in applicants who will benefit from and complement the existing strengths in computational, nonlinear and statistical physics, nanoscience, complex and energy related materials, and quantum phenomena in electronic, optical, and spin systems. For a detailed description of ongoing departmental research, see <http://www.physics.emory.edu/research.html>.

Applicants must have a PhD degree in physics or a closely related field, and a proven record of research accomplishment. The successful candidate will be expected to establish an independent, internationally recognized and externally funded research program, and demonstrate excellence in teaching at both undergraduate and graduate levels. He or she will have access to the state-of-the-art research facilities maintained by the Department of Physics and other research support centers at Emory, as described at <http://www.physics.emory.edu/Facilities/>.

To apply, submit a Curriculum Vitae, a research plan, and a teaching statement to search2014@physics.emory.edu. Applicants should arrange for at least three letters of recommendation to be sent to the same address. Review of applications will begin **November 1, 2014** and will continue until the position is filled.



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.



FACULTY POSITION

COMPUTATIONAL
SYSTEMS BIOLOGY

UNIVERSITY OF ILLINOIS
URBANA-CHAMPAIGN

The Institute for Genomic Biology in partnership with the Colleges of Liberal Arts and Sciences and Engineering at the University of Illinois at Urbana-Champaign invites applications for a full-time tenure-track/tenured faculty position at the Assistant, Associate, or Full Professor level. We seek applicants who will build a strong research program that applies computational methods to problems in systems and/or synthetic biology.

Please visit <http://go.illinois.edu/csbfaculty> to view the complete position announcement and application instructions. For full consideration, applications must be received by **November 15, 2014**.

The University is an EEO Employer/Vet/Disabled www.inclusiveillinois.illinois.edu



LECTURER WITH POTENTIAL FOR SECURITY OF EMPLOYMENT

Department of Chemical Engineering and Materials Science

The University of California, Davis is looking to appoint a Lecturer with Potential for Security of Employment with versatile education and teaching responsibilities. The successful candidate will teach undergraduate materials science and engineering courses and develop new courses to broaden the diversity of offerings in MSE to enrich the UC Davis educational experience and increase diversity/inclusion. She/he will take the leadership role and work collegially with current MSE faculty to create innovations in curriculum development, and inspire outreach and communication to further rapidly increase our MSE undergraduate enrollment.

Candidates must have a PhD degree in materials science and engineering or a closely related field, and a bachelor's degree from an ABET accredited materials science and engineering program is strongly preferred. They should be enthusiastic about MSE in all its dimensions as demonstrated by some breadth of experience in creating and teaching courses or other scholarly engineering education activities such as organizing written student manuals for materials laboratory courses. Familiarity with ABET procedures, online instruction, recruitment activities, and student advising will be an asset. We expect the candidate to be able to teach most of the courses in our undergraduate materials science and engineering curriculum as well as develop newer seminars/courses with broad appeal in areas that influence engineering education (e.g., report writing skills, presentation of undergraduate and graduate research, professional ethics, literature searches, internships, resumes, and job searches).

Consult <http://chms.engineering.ucdavis.edu/> for our on-line application procedure and requirements. The position is open until filled; but to assure full consideration, applications should be submitted no later than 5:00 pm, **October 31, 2014**, for a start date of July 1, 2015

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



FACULTY POSITIONS | School of Materials Engineering

The School of Materials Engineering at Purdue University invites applications for two Faculty Positions. The first position is a tenure-track position at the expected rank of **ASSISTANT PROFESSOR**, and aims to attract a candidate with specific expertise and interests in the area of metallic materials, including but not limited to metals processing, physical metallurgy, and mechanical metallurgy. The second position is anticipated to be at the rank of **ASSOCIATE/FULL PROFESSOR** and seeks to attract exceptional candidates with interests and expertise in any Materials Science and Engineering area that will complement our existing areas of expertise within the School. A significant record of independent scholarly and research accomplishments must be documented, as well as the successful candidate having an international reputation of excellence within his/her area of research.

Successful candidates must hold a PhD degree in Materials Science and Engineering or a related discipline and demonstrate excellent potential to build an independent research program at the forefront of their field. The duties of both positions include conducting original research, advising graduate students, teaching undergraduate and graduate level courses, and performing service both at the School and University levels. Candidates with experience working with diverse groups of students, faculty, and staff and the ability to contribute to an inclusive climate are particularly welcome. The anticipated start date is August 2015.

The School of Materials Engineering at Purdue University has experienced significant growth in the past decade and has a strong faculty core engaged in all areas of Materials Science and Engineering, as well as significant interdisciplinary efforts across campus, with other academic institutions, and industrial partners. For a detailed description of research activities see www.engineering.purdue.edu/MSE/. The College of Engineering at Purdue is currently undergoing extensive growth, with over one hundred faculty position openings being filled over the next five years.

Submit applications online at <https://engineering.purdue.edu/Engr/InfoFor/Employment>, including curriculum vitae, teaching and research plans (each 3 pages maximum), copies of up to three most relevant publications, and names of three references. For information/questions regarding applications contact Marion Ragland, Faculty Recruitment Coordinator, College of Engineering, at ragland@purdue.edu. Address questions regarding the positions to Prof. Rodney Trice, Search Chair at rtrice@purdue.edu. Review of applications will begin on September 15, 2014 and will continue until positions are filled. A background check will be required for employment in the positions.

Purdue's main campus is located in West Lafayette Indiana, a welcoming and diverse community with a wide variety of cultures, industries, and excellent schools. Purdue and the College of Engineering have a Concierge Program (https://engineering.purdue.edu/Training/students/abottig/Concierge/index_html.html) to assist new faculty and their partners regarding dual career needs and facilitate their relocation.

Purdue University is an EEO/AA employer fully committed to achieving a diverse workforce. All individuals, including minorities, women, individuals with disabilities, LGBTQ, and veterans are encouraged to apply.

TENURE-TRACK FACULTY POSITION

Materials Science and Engineering Harvard University



The School of Engineering and Applied Sciences (SEAS) at Harvard University seeks applicants for a tenure-track faculty position in the field of Materials Science and Engineering. We seek an individual who will perform the highest quality scholarly research, with potential applications to meet an important societal need, such as energy, environment, or health. The expected start date is July 1, 2015.

Candidates are required to have a doctorate or terminal degree in a related field by the expected start date. In addition, we seek candidates who have an outstanding research record and a strong commitment to undergraduate teaching and graduate training. We are in particular looking for applicants, of exceptional potential, who can interact with a wide range of faculty at SEAS and at Harvard more broadly.

Required application documents include a cover letter, curriculum vitae, statement of research plans, statement of teaching interests, copies of up to three representative papers, and names and contact information for three to five references. We encourage candidates to apply no later than **November 1, 2014**, but will continue to accept applications until the position is filled. Applicants will apply on-line at <http://academicpositions.harvard.edu/postings/5658>.

SEAS benefits from outstanding undergraduate and graduate students, an excellent location, and significant industrial collaborations. Information about SEAS's current faculty, research, and educational programs is available at <http://www.seas.harvard.edu>.

Harvard University is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, or any other characteristic protected by law.



GIA

RESEARCH SCIENTIST

CVD Synthetic Diamond Research Gemological Institute of America (GIA)

The GIA research department in New York invites applications for a research scientist position. The department seeks individuals to perform research and synthesis of CVD diamonds, both single crystal and polycrystalline. The successful candidates will lead the efforts to set up a CVD synthesis laboratory, to develop the techniques and methods in diamond synthesis and analysis, focusing on possible applications in jewelry industry.

A PhD degree in physics, chemistry, materials science, or a related field is needed. Experiences in CVD growth and demonstrated achievements in this research area are required.

We offer competitive salaries, excellent benefits, a pleasant working environment, and are committed to workplace diversity. If you are interested in applying, please send your resume, cover letter and salary requirements to <https://careers-gia.icims.com>.

For more information about this opening please visit our website at <http://www.gia.edu>.

GIA is an Equal Opportunity Employer.



**MATERIALS SCIENCE
& ENGINEERING**
TEXAS A&M UNIVERSITY

FACULTY POSITION

Department of Materials Science and Engineering

Texas A&M is located in the twin cities of Bryan and College Station, with a population of more than 175,000, and is conveniently located in a triangle formed by Dallas, Houston, and Austin. Texas A&M has more than 50,000 graduate and undergraduate students enrolled. Research expenditures at Texas A&M total more than \$800 million annually, ranking 24th nationally. With an endowment valued at more than \$5 billion, the university ranks fourth among U.S. public universities and 10th overall. With 365 tenured/tenure-track faculty members and more than 12,000 students, the Dwight Look College of Engineering is the third largest engineering school in the country. The college is ranked seventh in graduate studies and eighth in undergraduate programs by *U.S. News & World Report*, with seven of the college's 13 departments ranked in the Top 10. The Look College is ranked second in research expenditures by the American Society for Engineering Education.

The Department of Materials Science and Engineering at Texas A&M University invites applications for a tenured or tenure-track faculty position at the assistant, associate, or full professor level with expertise in computational materials science & engineering. The successful applicants will teach primarily at the graduate level but may be required to teach select undergraduate courses in support of the development of the undergraduate program; advise and mentor graduate students; develop an independent, externally funded research program; participate in all aspects of the department's activities; and serve the profession. Strong written and verbal communication skills are required. Applicants should consult the department's website to review our academic and research programs (engineering.tamu.edu/materials).

The Department of Materials Science and Engineering is currently a graduate program which will soon offer an undergraduate minor followed by a fully developed undergraduate program. The academic administration of the department is under the joint supervision of the deans of engineering and science. The department has about 100 graduate students enrolled, most of whom are pursuing PhD degrees. There are currently nine full-time faculty in the department, and 41 more faculty members jointly appointed. The target for the department is to increase the number of full-time faculty to more than 17 and establish an undergraduate program in the next four years; and increase to 30 faculty, with 750 undergraduate and graduate students by 2025.

Applicants must have an earned doctorate in materials science and engineering or a closely related engineering or science discipline.

Applicants should submit a cover letter, curriculum vitae, teaching statement, research statement, and a list of four references (including postal addresses, phone numbers, and email addresses) by applying for this specific position at www.tamengineeringjobs.com. Full consideration will be given to applications received by **December 1, 2014**. Applications received after that date may be considered until positions are filled. It is anticipated the appointment will begin fall 2015.

The members of Texas A&M Engineering are all Affirmative Action/Equal Employment Opportunity Employers. It is the policy of these members in all aspects of operations each person shall be considered solely on the basis of qualifications, without regard to race, color, sex, religion, national origin, age, disabilities, or veteran status.



Department Head

The Department of Materials Science and Engineering (MatSE) at The Pennsylvania State University invites applications or nominations for the position of Department Head. Penn State is one of the largest materials research institutions in the United States, and MatSE is an international leader in materials education and research. As a top-ranked program, the department thrives on a rich collaboration among faculty, staff, students, and researchers to promote a well-rounded academic experience and innovative research opportunities.

The Department seeks a dynamic and innovative leader who is dedicated to excellence in research and education and maintaining contacts with alumni and industry. The successful candidate will articulate a poised and ambitious vision for maintaining strength and cohesiveness in all of the Department's programmatic areas, developing new initiatives and funding vehicles to enhance research and scholarship opportunities for undergraduate and graduate students, and promoting strategic initiatives within the College of Earth and Mineral Sciences, including enhancement of diversity and increasing engagement with external stakeholders. The successful candidate is expected to start as early as January 1, 2015 as the Department's main home, Steidle Building, nears the end of its \$52M renovation that will create, together with the newly completed Millennium Science Complex, one of the premier materials research facilities in the nation. The candidate should demonstrate an exceptional record of scholarship and be qualified for appointment with tenure at the rank of Professor, with an earned doctorate in a field relevant to the Department.

MatSE has 28 faculty members, 131 graduate students, and 228 undergraduate students. The undergraduate program is customizable by each student—allowing for the blending of interest areas and materials topics. Penn State's Intercollege Graduate Degree Program in Materials Science and Engineering offers the ability to continue one's materials education with either a Masters of Science or Doctoral degree. Both faculty and students are engaged in high-level research through Penn State's many materials research centers, faculty research groups, Undergraduate Research Fellows program, International Internships in Materials and more. This research spans the many sub-disciplines of materials science and engineering and generates more than \$10 million in project funding each year. Additional information about the Department can be found at www.matse.psu.edu.

Review of applications will begin October 1, 2014 and continue until suitable candidates are identified. Women and members of under-represented groups are encouraged to apply. Application materials should include a cover letter; curriculum vitae; vision statement; representative research papers; and the names and contact information, including an e-mail address, of at least three references. Questions about the position should be directed to the search committee chair, Lee R. Kump, Head, PSU Dept. of Geosciences, at lrk4@psu.edu.

Apply to job 52816 at <http://apptrkr.com/503325>

CAMPUS SECURITY CRIME STATISTICS: For more about safety at Penn State, and to review the Annual Security Report which contains information about crime statistics and other safety and security matters, please go to <http://www.police.psu.edu/clery/>, which will also provide you with detail on how to request a hard copy of the Annual Security Report.

Penn State is an equal opportunity, affirmative action employer, and is committed to providing employment opportunities to minorities, women, veterans, disabled individuals, and other protected groups.



FACULTY POSITION

Experimental Condensed Matter Physics

The Department of Physics at Auburn University is seeking a qualified individual for a tenure-track faculty position in experimental condensed matter physics. Applicants must have a PhD or equivalent degree and postdoctoral research experience is highly desirable. The successful candidate will be expected to:

- (1) actively develop their own research program in experimental condensed matter physics related to materials growth/synthesis and characterization of functional mesoscopic or low dimensional materials (examples include, but are not restricted to thin films, superlattices, nanostructures, quantum dots, etc.) that demonstrate novel physical phenomena with future technological applications;
- (2) interact with and contribute to the advancement of the condensed matter physics program at Auburn University;
- (3) advise and mentor undergraduate, graduate student, and postdoctoral researchers in condensed matter physics; and
- (4) have a strong commitment to high quality teaching and teach both graduate and undergraduate students.

Interested candidates should submit a letter of interest, a curriculum vitae, and the names of three references. Review of applications will begin **December 1, 2014** and will continue until the position is filled. The desired starting date is August 16, 2015.

In order to apply for this position and view full details, please visit our online website at <https://aufacultypositions.peopleadmin.com/postings/652>.

The candidate selected for this position must be able to meet eligibility requirements to work in the United States at the time the scheduled appointment begins and to continue working legally for the proposed term of employment. The candidate must possess excellent written and interpersonal communication skills.

Diversity among its administrators, faculty, staff, and students is an Auburn University commitment. 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.



FACULTY POSITION

Structural Materials
University of California, Santa Barbara



The Materials Department in the College of Engineering at the University of California, Santa Barbara is seeking applications for a tenure-track faculty position in the area of Structural Materials. Applications at the Assistant Professor level are encouraged. Truly exceptional candidates may also be considered for Associate or Full Professor levels.

Candidates should demonstrate the ability to develop a leading research program in experimental materials science, with emphasis on the synthesis, processing, and/or characterization of Structural Materials. Of primary interest are systems where mechanical performance is essential, especially under severe environments, in advanced energy systems, or when multiple functionalities are involved. Interests also include advanced methods to characterize structure and topology at different length scales, as needed, to understand the relationships with properties. It is expected that the candidate would demonstrate potential for integrative and collaborative research with the broader Materials community at UCSB, which has a longstanding reputation for collaborative research in advanced structural materials.

Applications consisting of a résumé, a statement of teaching goals and philosophy, a brief (3-page limit) statement of research interests, and the names and addresses of at least three references, should be submitted online at <https://recruit.ap.ucsb.edu/apply/JPF00373>. The application deadline is **December 15, 2014**.

The Materials department is especially interested in candidates who can contribute to the diversity and excellence of the academic community through research, teaching, professional visibility, and service. The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, or any other characteristic protected by law including protected Veterans and individuals with disabilities.



FACULTY POSITION

Department of Materials
Science and Engineering



JOHNS HOPKINS
WHITING SCHOOL
of ENGINEERING

The Department of Materials Science and Engineering (DMSE) invites applications for a Director of the Materials Processing and Characterization Facility. This is a non-tenure track position within the Whiting School of Engineering (WSE) with the anticipated rank of Research Professor, depending on experience and qualifications.

The Materials Processing and Characterization Facility houses instrumentation serving the diverse research interests of Johns Hopkins University. Currently, the facility is in the design stage. Equipment and capabilities of the facility include, but are not limited to, X-ray diffractometry, X-ray photoelectron and auger spectrometry, scanning electron microscopy, thin film and bulk materials growth, mechanical processing and testing equipment such as for tension/compression and nanoindentation, sample preparation for microscopy, research and education, confocal microscopy, and ultracentrifugation.

The successful candidate will be expected to establish, manage, and grow the Facility. Duties include writing and coordination of major equipment grants, coordinating laboratory design and construction, supervising a Laboratory Manager, helping develop standards and practices for safe and ethical use of shared equipment, providing technical help with instrument operation, safety and training, advertising and publicizing activities and capabilities of the Facility, and administering the Facility budget (including user fees and maintenance contracts). The position will report to the Chair of the Department of Materials Science and Engineering.

All applications should be submitted electronically as a single PDF document to matsci@jhu.edu. Applicants should include a cover letter describing their principal expertise and accomplishments, a complete resume, and the names and contact information for at least three references. For full consideration, applications should be received by **November 15, 2014**.

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



Assistant Professor

Condensed Matter Physics

The University of New Hampshire invites applications for a tenure-track faculty position in Condensed Matter Physics in the Department of Physics and the Materials Science Program beginning in August 2015. Both experimental and theoretical candidates are encouraged to apply. This position represents one of several to be filled in support of a multidisciplinary center for flexible electronics. Areas of particular interest include quantum phenomena in low-dimensional electronic materials and devices.

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

Applicants should send a cover letter that discusses how their research will support a multidisciplinary research effort in flexible electronics. Please submit your application as a single PDF document in the following order—cover letter, curriculum vitae, research plans (4 page max.) and teaching statement—to physics.search@unh.edu and arrange for three letters of recommendation to be sent to the same address. Review of complete applications will commence on **November 17, 2014**. For a more comprehensive job description visit <http://jobs.unh.edu>



University of
New Hampshire

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



Our Next Breakthrough IS YOU. Lawrence Postdoctoral Fellowship

The Lawrence Livermore National Laboratory (LLNL) has openings available under its Lawrence Fellowship Program. This is a highly desirable postdoctoral position that provides freedom to conduct independent, cutting-edge research, directed by the candidate, in an area of the candidate's choice. The duration of the Fellowship is up to three years. Typically two to four openings are available each year. Fellowships are awarded only to candidates with exceptional talent, credentials and a track record of research accomplishments.

Successful candidates will propose and subsequently conduct original research in one or more aspects of science relevant to the mission and goals of LLNL. Possible scientific areas include: Physics, Applied Mathematics, Computer Science, Chemistry, Material Science, Engineering, Environmental Science, Atmospheric Science, Geology, Energy, Lasers and Biology. Lawrence Fellows may participate in experimental or theoretical work at LLNL and will have access to LLNL's extensive computing facilities and specialized laboratory facilities. A senior scientist will be matched to the Fellow to serve as a collaborator and mentor. The candidates will receive full management and administrative support. The salary is \$8,500/mo.

Please refer to the following web page <http://apptrkr.com/502167> for eligibility requirements and instructions on how to apply. When applying and prompted, please mention where you saw this ad. The deadline for applications is November 1, 2014. LLNL is operated by the Lawrence Livermore National Security, LLC for the U.S. Department of Energy, National Nuclear Security Administration. We are an equal opportunity employer with a commitment to workforce diversity.



<http://fellowship.llnl.gov>

ENABLING MATERIALS FOR EXTREME ENVIRONMENTS



Tenure-Track Faculty Positions

Missouri University of Science and Technology is seeking candidates for tenure-track faculty positions in chemistry, nuclear engineering, and physics for the hiring campaign in **Enabling Materials for Extreme Environments**. Experience with boride, carbide, or nitride ceramics for use in extreme environments, such as those associated with hypersonic flight, rocket propulsion, ballistic impact, plasmas, neutron irradiation, etc., is desired. The appointments are anticipated to begin Fall 2015.

Specific information regarding the three faculty positions is available at: signature.mst.edu under the link **Enabling Materials for Extreme Environments**. Review of applications will begin on **November 1, 2014** and applications will be accepted and reviewed until the positions are filled.

Missouri S&T is an Equal Opportunity/Access/Affirmative Action/Pro Disabled & Veteran Employer.

Call for Assistant Professors and Professors



IST Austria invites applications for **Tenure-Track Assistant Professor** and **Tenured Professor** positions to lead independent research groups in all areas, as well as cross-disciplinary areas of

- **CHEMISTRY:** Applicants at the interface to Physics or Biology are particularly encouraged to apply.
- **PHYSICS:** Applicants in Condensed Matter Physics, Bio- and Soft Matter Physics, and Atomic, Molecular, and Optical Physics are particularly encouraged to apply.

While at present our main focus is on experimental research, outstanding theoreticians will be considered as well.

IST Austria is a recently founded public institution dedicated to basic research and graduate education near Vienna. Currently active fields of research include biology, neuroscience, physics, mathematics, and computer science. IST Austria is committed to become a world-class research center with up to 1000 scientists and doctoral students by 2026. The institute has an interdisciplinary campus, an international faculty and student body, as well as state-of-the-art-facilities. The working language is English.

Successful candidates will be offered highly competitive research budgets and salaries. Faculty members are expected to apply for external research funds and participate in graduate teaching. Candidates for senior positions must be internationally accomplished scientists in their respective fields.

DEADLINES: Open call for Professor applications. For full consideration, Assistant Professor applications should arrive on or before November 15, 2014. Application material must be submitted online: www.ist.ac.at/professor-applications

IST Austria values diversity and is committed to equal opportunity. Female researchers are especially encouraged to apply.



UIC

UNIVERSITY
OF ILLINOIS
AT CHICAGO

TENURE-TRACK POSITION EXPERIMENTAL MATERIALS PHYSICS

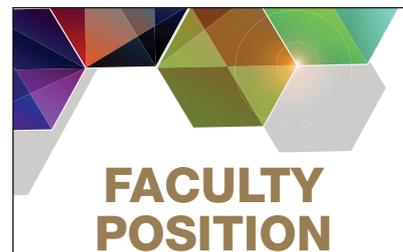
The Department of Physics and the College of Liberal Arts and Sciences at the University of Illinois at Chicago (UIC) invite applications for a tenure-track position at the Assistant Professor level in experimental materials physics with an emphasis on nanoscience and renewable energy materials beginning Fall, 2015, subject to budgetary approval.

The materials physics faculty affiliated with the Microphysics Laboratory at UIC conduct experimental and theoretical research in a broad range of nano- and energy materials, including thin film photovoltaics, thermoelectrics, and energy storage. A successful candidate is expected to develop an independent experimental research program in photovoltaic materials or related areas and attract corresponding federal grant support. S/he can take advantage of the existing characterization and synthesis user facilities at UIC's Research Resources Center (www.rrc.uic.edu).

Please complete an online application at <https://jobs.uic.edu/job-board/job-details?jobID=44975> which includes the names and contact information of at least three references. Required documents to be uploaded include a CV, a brief (3-page limit) statement of research interests and plans, and a statement of teaching philosophy. Applications must be completed by **November 14, 2014** to receive full consideration. The successful candidate must have a PhD degree and postdoctoral experience in Physics, Materials Science or a related field.

UIC is a Research I public university in the heart of Chicago. A description of the research programs in the Department of Physics can be found at www.phy.uic.edu. UIC is the largest university in the Chicago area with 27,000 students, 15 colleges, including the nation's largest medical school, and one of the nation's most diverse student bodies. For additional information, please refer to UIC's Home Page at www.uic.edu and the College of Liberal Arts and Sciences at www.las.uic.edu.

The University of Illinois at Chicago is an affirmative action/equal opportunity employer, dedicated to the goal of building a culturally diverse, pluralistic faculty and staff committed to teaching in a multicultural environment. We strongly encourage applications from women, minorities, individuals with disabilities, and covered veterans.



FACULTY POSITION

School of Materials Science and Engineering

The School of Materials Science and Engineering (MSE) at the Georgia Institute of Technology (GT) is seeking to add tenure-track faculty in the area of metallic materials. Outstanding candidates with demonstrated expertise and interests in physical/mechanical metallurgy, and/or bulk metals processing will be considered. Qualified candidates must possess a PhD degree in Materials Science and Engineering, Metallurgical Engineering, or closely related field with an emphasis on metallurgy. Applicants with exceptional records of creativity, originality, and excellence will be considered at all levels of assistant, associate, or full professor.

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

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/content/faculty-positions>.

Applicants are strongly encouraged to submit their complete application package by **December 1, 2014** to ensure full consideration. The selection process will include passing a preemployment background screening.

The Georgia Institute of Technology is an
Affirmative Action/Equal Opportunity Employer.



Massachusetts Institute of Technology

FACULTY POSITIONS Mechanical Engineering

The Massachusetts Institute of Technology (MIT) Department of Mechanical Engineering seeks candidates for faculty positions starting in September 2015 or thereafter. Appointment will be at the assistant or untenured associate professor level. In special cases, a senior faculty appointment will be considered. We seek candidates who will provide inspiration and leadership in research, contribute proactively to both undergraduate and graduate level teaching in the Mechanical Engineering department and add to the diversity of the academic community.

Faculty duties include teaching at the graduate and undergraduate levels, advising students, and conducting research. Candidates must hold an earned PhD degree in Mechanical Engineering or a related field by the beginning of employment. Candidates in all areas related to Mechanical Engineering will be considered, including, but not limited to: (1) mechanics: modeling, experimentation, and computation; (2) design, manufacturing, and product development; (3) control, instrumentation, and robotics; (4) energy science and engineering; (5) ocean science and engineering; (6) bioengineering; and (7) micro/nanoengineering. Our department is committed to fostering interdisciplinary research that can address grand challenges facing our society.

Applicants should send a curriculum vitae, a research statement, a teaching statement, and copies of no more than three publications. They should also arrange for four individuals to submit letters of recommendation on their behalf. This information must be entered electronically at the following site: <https://school-of-engineering-faculty-search.mit.edu/meche/register.tcl> by **December 1, 2014** when review of applications will begin.

MIT is an equal-opportunity/affirmative action employer. Women and underrepresented minorities are especially encouraged to apply.