



Boston, MA

Northeastern

Asst/Assoc/Full Professor Resilient and Sustainable Energy Systems

Requisition Number: FTFR000417

Division/College: College of Engineering

FT/PT: Full Time

POSITION SUMMARY:

The Department of Electrical and Computer Engineering at Northeastern University invites applications for open positions at all levels, with a preference toward senior levels. We seek exceptional candidates addressing problems in resilient and sustainable energy systems, with expertise broadly in one or more of the following areas:

- Utility power systems
- Power electronics and machine drives
- Renewable energy and sustainable systems
- Networks and cyber-physical systems
- Large scale system monitoring and control

The successful senior candidate should be an established researcher with a sustained record of funding, peer reviewed publications, and strong technical leadership. Outstanding candidates at the assistant professor level will also be considered. Successful candidates will be expected to develop strong independent research programs and to excel in teaching in both our undergraduate and graduate programs.

QUALIFICATIONS:

A Ph.D. in Electrical and Computer Engineering or a closely related field by the start date is required.

ADDITIONAL INFORMATION:

Northeastern's ECE department has 47 faculty with established areas of excellence in sensing and imaging (with an NSF ERC), communications and digital signal processing, power and control systems, power electronics, RF/microwave magnetic materials and device technologies. The Department is a member of the NSF Engineering Research Center for Ultra-wide-area Resilient Electric Energy Transmission Networks.

Northeastern University is ideally located in the heart of Boston and is in close proximity to a number of major academic institutions and innovative technology companies and installations. Northeastern's departments and research centers maintain strong collaborative interactions with many of these institutions, and the University is also home to a number of NSF-, DHS-, NIST- and NIH-supported core research centers. At the core of the Northeastern engineering education experience is our top ranked cooperative education program.

Applications should include a complete curriculum vitae, a statement of current and future research interests, a statement of teaching interests, and contact information for at least four references. For more information, contact Professor Ali Abur (abur@ece.neu.edu). Review of applications will begin immediately and will proceed until the position is filled.

To be considered for this position please visit our web site and apply online at the following link: <http://apptrkr.com/407470>

Northeastern University is an Equal Opportunity, Affirmative Action Educational Institution and Employer, Title IX University. Northeastern University particularly welcomes applications from minorities, women and persons with disabilities. Northeastern University is an E-Verify Employer.



Assistant Professor

Materials Department
University of California, Santa Barbara

The Materials Department in the College of Engineering at the University of California, Santa Barbara is seeking applications for a tenure-track Assistant Professor position in the area of Bio and Macromolecular Materials.

Outstanding candidates should demonstrate the ability to build a world-class experimental or theoretical research program in the area of soft materials. All areas relevant to soft materials are of interest. It is expected that the candidate would demonstrate the potential for collaborative, interdisciplinary research with the broader materials community at UCSB and take a leading role in advancing the world-class facilities at UCSB.

Applicants should have a PhD degree or equivalent in materials science and engineering or a closely related field.

Applications comprising a resume, statement of teaching philosophy, a brief (3-page limit) statement of research interests, and names and addresses of at least three references should be submitted to <https://recruit.ap.ucsb.edu/apply/JPF00271>.

Please apply by **March 30, 2014** for primary consideration, however, the position will remain open until filled.

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

EO/AA Employer

Paid Undergraduate Program

Sustainable Materials Research Training (SMaRT) Camp

June 15-August 16 2014

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/smart>

CSMC  center for sustainable materials chemistry



جامعة الملك عبدالله
للعلوم والتقنية
King Abdullah University of
Science and Technology

Faculty Positions Chemical and Biological Engineering

The Physical Sciences and Engineering (PSE) Division at King Abdullah University of Science and Technology (KAUST) invites qualified applicants to apply for faculty positions at all ranks (Assistant, Associate, and Full Professor) in the Chemical and Biological Engineering Program.

KAUST offers superb research facilities, generous assured research funding and internationally competitive salaries. www.kaust.edu.sa

The science produced in PSE is about understanding, modeling, and manipulating matter at all scales: nano, meso, and macroscopic levels; in all forms: bulk, thin films, divided colloids, fluid flows, earth as system etc. and in interaction with external stimuli: light, heat, fluids, etc. or stresses. The knowledge created serves to design and engineer materials, technologies, and systems.

The Chemical and Biological Engineering Program offers opportunities to develop real-world solutions to global challenges by leveraging basic discoveries in chemical and biological sciences. The successful candidate will focus his/her research on these required areas of expertise:

PROCESS MODELING AND DESIGN

- Solid academic/industrial background
- Conduct design, optimization, and cost analysis of membrane and conventional separation processes
- Teach advanced principles of process design and control.

PETROLEUM AND NATURAL GAS ENGINEERING (SENIOR-LEVEL POSITION)

- Background and strong knowledge in the petroleum and/or natural gas industry
- Ability to build bridge between KAUST and Saudi Arabia's fast-growing petroleum industry

BIOMOLECULAR ENGINEERING (SENIOR-LEVEL POSITION)

- Development and leadership of Biomolecular Engineering program
- Well-established research in areas such as biomaterials, tissue engineering, bioprocess engineering or biomedical engineering

REACTOR DESIGN AND PROCESS ENGINEERING (POSITION OPEN IN KAUST CATALYSIS CENTER: [HTTP://CCRC.KAUST.EDU.SA](http://ccrc.kaust.edu.sa))

- Specialize in heterogeneous or photo catalysis
- Scale up reactors in field of water splitting, high temperature catalytic processes, and processes for air sensitive catalysts
- Expertise in university, industry, or both

Applicants should have a proven track record to establish a high impact research program and have a commitment to high quality teaching at the graduate level.

To learn more about the PSE Division and complete the online application form, visit <http://apptrkr.com/411552>. Application requirements include the following sections:

- Updated curriculum vitae with a full list of publications
- Statement of research
- Statement of teaching interests
- Contact details of at least four potential referees

Applications received by **January 31, 2014** will receive full consideration and positions will remain open until filled.

www.kaust.edu.sa





FACULTY POSITION

School of Materials Science and Engineering

Nanjing University of Science and Technology

The School of Materials Science and Engineering (<http://clxy.njust.edu.cn/>) of the Nanjing University of Science and Technology (<http://www.njust.edu.cn/>) has multiple faculty openings at all ranks over the next few years. Highly qualified candidates are also eligible to apply for various distinguished faculty positions, including the Zijin Scholar position from the University, the Distinguished (Te Pin) Professorship, and the Innovation Scholar (Shuang Chuang) Professorship from Jiangsu province, as well as the Qianren Professorship from the central government. Candidates are sought with interests and expertise including, but not limited to:

- Advanced materials characterization (e.g., TEM, APT)
- Computer simulations (e.g., MD, first principle)
- Nanostructured materials
- Biomaterials (e.g., materials used for biomedical applications, tissue engineering, biomechanics, and tribology of biomaterials)
- Functional materials (e.g., electronic, optical, magnetic materials)
- Energy materials (e.g., materials for solar energy, nuclear energy, battery, etc.)

A doctoral degree in materials science and engineering or a related field is required, and postdoctoral experience is preferred. Candidates for senior positions are required to have a strong track record of innovative research, high-quality publications, high number of citations, leadership, and high standing in the academic community. All candidates should have the capability to teach a graduate or undergraduate course in English.

To apply, send your application package to chenjiao@mail.njust.edu.cn. The application package should include: 1) resume with publication list and the times cited for each paper, 2) research plan, 3) teaching plan, and 4) a list of three references.



JOHNS HOPKINS UNIVERSITY

FACULTY POSITION | Department of Materials Science and Engineering


The Department of Materials Science and Engineering at Johns Hopkins University invites applications for a junior-level tenure-track faculty position, preferably in materials characterization. Areas of special interest include three-dimensional microstructural characterization, characterization of materials *in situ* in extreme environments, characterization across multiple length scales, and analysis of large microstructural data sets. Preference will be given to applicants at the assistant professor level but exceptionally qualified candidates at higher ranks will also be considered.

It is expected that a successful candidate for this position will become a member of the Hopkins Extreme Materials Institute (hemi.jhu.edu), a multidivisional institute devoted to advancing the fundamental science associated with materials and structures under extreme conditions. The institute includes strong collaborations with other universities, national labs, and corporate affiliates, and currently houses two independent research centers.

The successful candidate will be expected to establish an independent, internationally recognized research program and to be committed to excellence in undergraduate and graduate instruction. Applicants must have an earned doctorate in materials science and engineering or a related field. Additional information about the department may be found at materials.jhu.edu.

All applications should be submitted electronically as a single PDF document to materials@jhu.edu. Applications should include a cover letter describing the principal expertise and accomplishments of the applicant, a curriculum vita, short (two page) statements of research and teaching interests, and the names and contact information for at least three references. For full consideration applications should be received by January 3, 2014, but applications will be accepted until the position is filled.

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/AA Employer.



UNIVERSITY OF MONTANA

Assistant Professor of Materials Science (868-254)

The Department of Chemistry and Biochemistry of the University of Montana (UM) seeks an energetic and ambitious tenure-track Assistant Professor of Materials Science. The position will be available in August of 2014. Duties will include teaching of graduate courses in a newly-established Materials Science (MtSci) doctoral program, development of a vigorous externally-funded research program including mentoring of students in original research, and participation in interdisciplinary program grants.

The successful candidate will have a PhD degree and postdoctoral experience in any area of Materials Science and demonstrated research experience in the form of publications in peer-reviewed journals and/or research funding from federal, state, or private agencies. Preference will be given to candidates with research interests in polymer science or nanomaterials and with expertise in electronic, photonic and magnetic materials, materials for energy storage and conversion, or biomaterials. Teaching experience is preferred but not required.

The MtSci doctoral program is a cooperative effort involving UM, Montana State University, and Montana Tech. The goals of the program include preparing doctoral students as leaders capable of transformative research, strengthening the collaborative relationships between Montana's research universities, and advancing the scientific and industrial interests of the state, the region, and the nation.

TO APPLY:

Candidates are required to submit application materials online via the UM Jobs posting <http://bit.ly/1cj8W6L> to receive full consideration. Application materials must include: letter of intent; full CV; a summary of research plans; and statement of teaching philosophy. Three (3) confidential letters of reference will also be required. Instructions to submit the letters are noted on the UM Jobs posting. Screening of applications will **begin January 15, 2014**, and will continue until the position is filled.

University of Montana is an ADA/EOE/AA/Veteran's Preference Employer



NORTHWESTERN
UNIVERSITY

Tenure-Track Assistant or Associate Professor

Materials Science and Engineering

The Department of Materials Science and Engineering at Northwestern University seeks an outstanding individual for a tenure-track faculty position in ceramics, in particular oxide-based materials. The appointment is at the assistant or associate professor level. Faculty duties include teaching at the undergraduate and graduate levels, development of an independent, internationally recognized research program, and supervision of student research. Candidates should have a distinguished academic and research record and a commitment to teaching in a highly interdisciplinary department.

Areas of interest include, but are not limited to, experiment, simulation, and theory in the electrical, optical, magnetic, mechanical, and thermal properties of ceramic materials.

Applications will be reviewed as they are received, and should be submitted preferably by **February 1, 2014**, but will be considered until **March 1, 2014**. Application materials should be submitted to the Search Committee Chair, exclusively via the web interface at <https://facultysearch.mccormick.northwestern.edu/apply/index/NJE>

Applicants should upload (all in PDF format) a cover letter, a curriculum vitae, a statement of teaching and statement of research (each two pages maximum), and the names and contact information for three to five references.

Northwestern University is an equal opportunity, affirmative action employer. Qualified women and minorities are encouraged to apply. It is the policy of Northwestern University not to discriminate against any individual on the basis of race, color, religion, national origin, gender, sexual orientation, marital status, age, disability, citizenship, veteran status, or other protected group status. Hiring is contingent upon eligibility to work in the United States.



STEVENS
INSTITUTE of TECHNOLOGY
THE INNOVATION UNIVERSITY

Tenure-Track Assistant Professor

Chemical Engineering and Materials Science

Stevens Institute of Technology announces a tenure-track faculty opening in the Department of Chemical Engineering and Materials Science (CEMS) starting August 1, 2014. As a leading academic department at Stevens, CEMS has its research centered on problems broadly related to energy, health, and defense that are closely aligned with the ten-year strategic plan of the Institute.

Applicants should have a PhD degree in Chemical Engineering, Materials Science and Engineering, or closely related disciplines. While all relevant areas will be considered, priority will be given to candidates with research interests in sustainable energy or innovative healthcare solutions. Successful applicants will be expected to develop strong extramurally funded research and show a clear commitment to both graduate and undergraduate education in an interdisciplinary environment. The search targets applicants for the rank of assistant professor but applications for higher ranks will also be considered, depending on the candidate's experience, record of accomplishments, and national and international recognition.

Applications will be accepted until the position is filled. Applicants should submit a curriculum vitae, a detailed research plan including long-term professional goals, a description of teaching interests, and contact information for at least three references.

Applicants can apply for this position at <http://www.apply2jobs.com/Stevens>.

Stevens Institute of Technology is an equal opportunity/affirmative action employer and actively seeks the candidacy of women and minorities.



TECHNISCHE
UNIVERSITÄT
DARMSTADT

Within the structural unit of the Excellency Graduate School "Energy Science and Engineering" we are looking for a

W1 Junior Professor "Catalytic and Electrocatalytic Materials"

(Code. No. 350)

jointly allocated at the Departments of Materials and Geosciences as well as Chemistry
Starting date: as early as possible

We are looking for an excellent candidate with expertise in the development of catalysts. Scientific focus of the professorship is the synthesis and characterisation of advanced catalysts for the production of chemicals fuels (hydrogen and carbon-hydrogen compounds) to be used for the storage of energy from volatile primary sources (e. g. solar, wind) and related areas. For this purpose new catalysts shall be synthesized using novel approaches, they should be characterized in their solid state and physical properties, and developed to their applicability in collaboration with other research groups of the excellence cluster. We are looking for solid heterogeneous catalysts from nanosized transition metal cluster compounds as substitutes of noble metal catalysts. Possible application areas are for example co-catalysts for photocatalytic and photoelectrochemical water splitting, electrocatalysts for water electrolysis, and/or reduction of CO₂ under extreme conditions. The Junior Professorship complement the key area „Solar Fuels“ of the graduate school and should contribute to its development at the TU Darmstadt in research and teaching.

Next to excellent potential in scientific research, complementary teaching talent is required. The prerequisites according to § 64 HHG (Hessisches Hochschulgesetz) apply. The doctorate and the experience as postdoctoral researcher should not have exceeded a total of 6 years.

The position is initially assigned for three years. Given a positive evaluation at the end of the initial period, the appointment can be extended by three more years. A tenure track is not planned. The salary follows the German W-Besoldung (Hessisches Professorenbesoldungsgesetz – HPBesG) at level W1.

The Technische Universität Darmstadt intends to increase the number of female faculty members and encourages female candidates to apply. In case of equal qualifications applicants with a degree of disability of at least 50 or equal will be given preference.

Applications with documentation including CV, list of publications, teaching experience, and copies of three publications are to be sent under the number provided above to the dean of the department Material- und Geowissenschaften, Alarich-Weiss-Str. 2, 64287 Darmstadt, Germany, and as an electronic version to dekanat@matgeo.tu-darmstadt.de

Application deadline: February 15, 2014



POSITIONS AVAILABLE

Materials Modeling

GE Global Research

The Materials Modeling Lab of GE Global Research, Bangalore, India, is at the forefront of developing fundamental understanding of structural and functional materials that will be translated into products and services in a wide range of GE businesses. Key applications include Aviation, Energy, and Oil & Gas sectors.

We are looking for outstanding candidates with backgrounds in the following areas:

1. Structure-property relationships
2. Physics and microstructure-based modeling of deformation behavior
3. Physical and mechanical metallurgy of high-temperature materials
4. Modeling of material processing viz. casting, forging, direct-laser-processing, etc.

For more details on the openings and to apply, visit jobs.gecareers.com and search for **Job No. 1907402**.



UMASS
AMHERST

Electronic Materials

The Department of Electrical and Computer Engineering at the University of Massachusetts Amherst invites applications for a tenure-track assistant professor position in electronic materials. For candidates with exceptional academic merit, a senior appointment at associate or full professor level may be considered. A start date of September 1, 2014, is preferred.

Candidates must have an earned doctorate in Electrical Engineering, Materials Science and Engineering or related field at the time of appointment. The candidate is expected to have a demonstrated ability to develop an independent, high-impact and externally-funded experimental research program, and should have a commitment to teaching both undergraduate and graduate courses. We seek applicants with significant accomplishments and a compelling vision of materials for electronic applications, including, for example, growth/synthesis/characterization of materials and/or nanostructures for electronic/magnetic/photonic/biological integration, micro/nanoelectronics, spintronics, sensors, energy conversion/storage/harvesting, terahertz technology or nanocomputing. Rank and salary will be commensurate with qualifications and experience.

The search committee will begin reviewing applications on January 2, 2014. The search will continue until the position is filled (contingent on approval and funding). Apply online at <http://umass.interviewexchange.com> or <http://umass.interviewexchange.com/jobofferdetails.jsp?JOBID=44944>

The University of Massachusetts Amherst is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply. In reviewing applicants, we will favorably factor personal experiences, or experiences helping others, in overcoming barriers to an academic career or degree and/or other experiences with students and colleagues from diverse backgrounds or perspectives.



FRONTIER INSTITUTE
OF SCIENCE AND TECHNOLOGY
前沿科学技术研究院
FIST

TEM Lab/Group Leader | Postdoctoral Positions | Operator Positions

Multi-disciplinary Materials Research Center
Frontier Institute of Science and Technology
Xi'an Jiaotong University

Frontier Institute of Science and Technology (FIST) is a large selective investment by XJTU in an effort to establish a world-class, multi-disciplinary research institute. To achieve this goal, FIST is setting up ten research centers of excellence in Physics, Chemistry, Bio-Science/Life-Science/Basic-medical-Science, and Materials Science, and adopts a new management system similar to that of most U.S. universities.

The Multi-disciplinary Materials Research Center (MMRC) is the first research center of FIST. It focuses on interdisciplinary research with emphasis on smart materials such as piezoelectrics, shape memory materials, and magnetostrictive materials. Over the years, MMRC has gained a significant reputation for its high-quality research and people.

To strengthen the microscopic characterization of MMRC's diverse research, MMRC has purchased a high-resolution transmission electron microscope JEOL 2100F, together with a full set of periphery equipment. We have decided to establish a TEM laboratory/group and all the positions are open for application.

Positions (full-time):

1. One TEM Lab/Group Leader (tenured or tenure-track depending on qualification)
2. One or Two Postdoctoral Positions
3. One TEM Operator

Job Description:

- The lab/group leader will lead a research group and generate high-quality research using TEM.
- Collaborate with MMRC members and carry out TEM characterization experiments of the whole MMRC.
- TEM operator will be in charge of TEM operation, training of users, maintenance of the TEM and its periphery equipments, and establish an efficient system to assist users to get high-quality results.

An eligible candidate for the TEM lab/group leader position should have a track-record for excellence in research using TEM and the potential to lead the lab/group to success. Depending on the qualifications, the position may be tenured or tenure-track. Successful candidates will be provided with a competitive start-up package including an annual salary of 300k to 500k RMB, and competitive start-up fund, together with many other benefits. Position offer and start-up package will vary with the candidate's qualification. See our Chinese ad at <http://fist.xjtu.edu.cn/job/show.asp?id=12> for details.

An eligible candidate for the postdoctoral positions should have at least two year's experience in TEM and has demonstrated a potential for excellence. An ideal candidate for the TEM operator position should have at least five years of hands-on experience in TEM. We shall provide competitive salary and other benefits. See our Chinese ad at <http://fist.xjtu.edu.cn/job/show.asp?id=12> for details.

Dr. Xiangli Meng
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Tel/Fax: +86 29 8339-5131
Email: fist@mail.xjtu.edu.cn

XJTU is an AA/EOE employer.



TENURE-TRACK POSITION | Materials Engineering

Florida International University (FIU) invites applications for a tenure-track position at open rank level in Materials Engineering beginning Fall 2014, in the Department of Mechanical and Materials Engineering, Job Opening ID 506922.

The Mechanical and Materials Engineering department has 20 faculty members who support its offerings of BS in ME (ABET accredited), MS in ME and MSE, and PhD programs in ME and MSE. The department has over 700 undergraduates and 75 graduate students. Materials Research is supported by two research facilities, the Advanced Materials Engineering Research Institute (ameri.fiu.edu), and the Center for Study of Materials at Extreme Conditions (cesmec.fiu.edu).

AMERI is a full service materials characterization and nanofabrication facility that includes multiple SEMs, x-ray diffractometer, a TEM, a Dual Beam FIB, multiple clean room environments, e-beam lithography, as well as multiple lithography and deposition systems. Duties of the successful faculty candidates include teaching primarily graduate courses and some undergraduate courses in mechanical and materials engineering, mentoring students, developing an externally funded research program, and publishing scholarly work. Also, the successful candidate may become the director of the Advanced Materials Engineering Research Institute (AMERI).

Qualifications: An earned doctoral degree in Materials Science Engineering or a closely related engineering field is required prior to the start of the appointment. The successful candidates must have a demonstrated record of scholarly work and a history of established robust externally funded research program and research management.

Special consideration will be given to candidates with expertise in mechanical and physical metallurgy and experience in failure analysis, fatigue, fracture, dislocation mechanics, micro/nano-materials characterization, micro/nano-materials fabrication, and nanotechnology. Candidates must have a commitment to teaching excellence and be qualified to teach courses in mechanical and materials science engineering, including materials in engineering, strength of materials, physical and mechanical metallurgy, physical properties of materials, and composite materials.

Demonstrated excellent verbal and written communication skills are prerequisites of all candidates for this position. FIU offers a competitive salary and benefits package, and an excellent work environment. Additional information is available at jobsearch.fiu.edu.

Applications must include a letter of application, a curriculum vitae, a statement of research experience and plans, a statement of teaching experience and interests, and contact information for three references in a single pdf file. Applications must be submitted online to **Job Opening ID 506922** at jobsearch.fiu.edu. Deadline is open, but, to receive full consideration, applications must be received by **January 15, 2014**. Applications are encouraged from members of under-represented minorities and women.

FIU is a member of the State University System of Florida and is an Equal Opportunity, Equal Access Affirmative Action Employer.



FACULTY POSITION Experimental/Theoretical Materials Research

The Colleges of Science and Engineering at the University of Utah invite applications for a tenure-track faculty position in the general area of organic optics/electronics/spintronics; plasmonics; and energy harvesting. The tenure-track appointment is likely to be made at the junior level in any department within the two Colleges; however, candidates at higher rank will be also considered. Strong candidates who have solid track record in synthesis, physical studies, and modeling of functional materials are especially invited to apply. Synergy with local NSF/MRSEC research groups interested in organic spintronics and/or plasmonics is highly desirable. The appointment is expected to begin in August 2014.

A PhD degree is required and postdoctoral research experience in related fields of Science and Engineering is preferred. Candidates must have an outstanding research record for their experience level and show promise of teaching effectively at both the undergraduate and graduate levels. We especially welcome applications from members of under-represented groups. Information about the University and the Colleges on Science and Engineering, and the MRSEC may be found at URL <http://www.mrsec.utah.edu>, <http://www.coe.utah.edu>, and <http://science.utah.edu>.

Review of applications will begin by **January 10, 2014**. A letter of interest, vitae, publications list, statements of research and teaching plans, and three to five letters of recommendation are required. **All application materials should be submitted online at <http://utah.peopleadmin.com/postings/28156> except for letters of recommendation. Letters of recommendation should be submitted electronically as PDF to Ms. Heidi Frank at heidi@physics.utah.edu.**

The University of Utah is an Equal Opportunity/Affirmative Action employer and educator. Minorities, women, and persons with disabilities are strongly encouraged to apply. Veterans preference. Reasonable accommodations provided. For additional information: <http://www.regulations.utah.edu/humanResources/5-106.html>.

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



Faculty Positions Chemical Sciences

The Physical Sciences and Engineering (PSE) Division at King Abdullah University of Science and Technology (KAUST) invites qualified applicants to apply for faculty positions at all ranks (Assistant, Associate, and Full Professor) in the Chemical Sciences Program.

KAUST offers superb research facilities, generous assured research funding and internationally competitive salaries. www.kaust.edu.sa

The science produced in PSE is about understanding, modeling, and manipulating matter at all scales: nano, meso, and macroscopic levels; in all forms: bulk, thin films, divided colloids, fluid flows, earth as system etc. and in interaction with external stimuli: light, heat, fluids, etc. or stresses. The knowledge created serves to design and engineer materials, technologies, and systems.

The Chemical Sciences Program is concerned with Chemistry in all its facets including those addressed in KAUST Research Centers, particularly in Catalysis, Membrane, Solar Energy, and Red Sea Centers. <http://chems.kaust.edu.sa>

The Chemical Sciences program is currently recruiting for the following positions:

POLYMERIC MATERIALS

- Design, synthesis, and structural/molecular characterization
- Investigation of functional properties of novel well-defined polymeric materials

EXPERIMENTAL POLYMER PHYSICS

- Emphasis on dynamics and molecular rheology of polymeric systems including, but not limited to, branched polymers, copolymers, functionalized and responsive polymers, nanocomposites, melts and solutions
- Particular interest in applicants with research experience and related background in polymer processing

TOTAL SYNTHESIS (IN COLLABORATION WITH THE RED SEA AND PLANT CENTERS)

- Initiate organic chemistry research program dedicated to total synthesis of biologically active natural products

HETEROGENEOUS CATALYSIS (POSITION OPEN IN KAUST CATALYSIS CENTER: [HTTP://CCRC.KAUST.EDU.SA](http://ccrc.kaust.edu.sa))

- Focus involves "New Concepts in Catalysis leading to Major Breakthroughs"
- Expand the heterogeneous catalysis expertise to the area of refining and petrochemistry
- Exploit the unique situation of Saudi Arabia which houses almost one third of oil reserves in the world

Applicants should have a proven track record to establish a high impact research program and have a commitment to high quality teaching at the graduate level.

To learn more about the PSE Division and complete the online application form, visit <http://apptrkr.com/411555>. Application requirements include the following sections:

- Updated curriculum vitae with a full list of publications
- Statement of research
- Statement of teaching interests
- Contact details of at least four potential referees

Applications received by **January 31, 2014** will receive full consideration and positions will remain open until filled

www.kaust.edu.sa





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

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

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

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

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

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

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

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

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



FACULTY POSITION

Department of Materials Science and Engineering

The Department of Materials Science and Engineering at the University of Florida (UF) invites applications from outstanding candidates for a full-time, tenure-track or tenured faculty position in the area of materials modeling. Areas of interest include, but are not limited to, soft matter and biomaterials; functional magnetic materials; organic electronics; and materials in extreme environments. We are primarily focused on a hire at the rank of Associate or full Professor, although exceptional individuals at all levels may be considered. This is part of a strategic initiative throughout the College of Engineering to hire 30 new faculty in areas including health, engineering a sustainable world, security, information technology and big data, building tomorrow's leaders, and the economy. The successful candidate will interact with cutting-edge interdisciplinary researchers and leverage the College's new Institute of Computational Engineering to develop next-generation materials and/or tools for their realization.

The UF College of Engineering has 240 faculty, over 6000 undergraduate students and over 2700 graduate students. The College has a focus on interdisciplinary programs and research and fifteen engineering specialties. We have over \$60M in external funding and have over 200 PhD student graduates annually.

UF is a major, public, land-grant, research institution that traces its roots back to 1853. It is the flagship of Florida's diverse higher education system. Today, with 16 colleges, more than 150 research centers and institutes, and about 50,000 students, UF is one of the largest universities in the nation.

UF has a 2,000-acre campus located in beautiful north central Florida in Gainesville. Gainesville is a lively, diverse and cultured community that thrives on UF's close-knit relationship. The community is home to a growing entrepreneurial environment and is home to many new startups. Gainesville is regularly ranked as one of the most livable cities in the nation. Gainesville is an easy drive from the Atlantic and Gulf Coasts, as well as Jacksonville, Tampa, and Orlando.

The search committee will begin reviewing applications immediately and will continue to receive applications until the position is filled. To be considered send a curriculum vitae, statement of research and teaching interests, and contact information for three references to the Susan Sinnott, Chair of the Search Committee at CompMatSciSearch@mse.ufl.edu. Final candidates will be required to provide official transcript to the hiring department upon hire. A transcript will not be considered "official" if a designation of "Issued to Student" is visible. Degrees earned from an education institution outside of the United States are required to be evaluated by a professional credentialing service provider approved by National Association of Credential Evaluation Services (NACES), which can be found at <http://www.naces.org/>.

University of Florida counts among its greatest strengths—and a major component of its excellence—that it values broad diversity in its faculty, students, and staff and creates a robust, inclusive, and welcoming climate for learning, research, and other work. UF is committed to equal educational and employment opportunity and access and seeks individuals of all races, ethnicities, genders, and other attributes who, among their many exceptional qualifications, have a record of including a broad diversity of individuals in work and learning activities.

The University of Florida is an Equal Opportunity Employer.



NON-TENURE TRACK FACULTY POSITIONS

Dwight Look College of Engineering Texas A&M University

The Dwight Look College of Engineering at Texas A&M University invites applications for non-tenure track faculty positions. Specifically targeted are candidates with experience and interests in **materials corrosion** in extreme service conditions. Applicants for the non-tenure track titles of associate professor or professor of engineering practice must have a PhD, Master, or Bachelor level degree in materials science and engineering, physics, chemistry, or in a related field, and significant industry and/or government lab experience. Candidates for associate professor or professor of engineering practice may be considered for multi-year appointments. The successful applicants will be expected to teach at the undergraduate and graduate level, develop curriculum and implement new teaching methods related to distance education and outreach programs, participate in the department's mission, and serve the profession. It is also expected that the candidate will supervise undergraduate/graduate research and collaborate with other faculty on externally funded research projects in the field. Strong written and verbal communication skills are required. Applicants will be evaluated based on current credentials and potential for impact in delivering real-world scenarios related to engineering education.

The Texas A&M Engineering Experiment Station (TEES), a state agency of Texas, also seeks research faculty in the non-tenure track titles of associate research professor or research professor with research experience and interests in **materials corrosion** in extreme service conditions. Candidates for these titles must have a PhD degree in materials science and engineering, physics, chemistry, or in a related field, and research experience and accomplishments relative to the rank being sought. Successful candidates will be expected to develop and maintain a funded quality research program in materials corrosion, and contribute to improving the economic development and quality of life in Texas and the nation.

Applicants must apply and include a cover letter clearly stating the position being sought, curriculum vitae, teaching statement, and a list of four references (including their postal addresses, telephone numbers and e-mail addresses) to the web site: www.tamuengineeringjobs.com/applicants/Central?quickFind=54963

The full position ad can be found at msen.tamu.edu. Full consideration will be given to applications received by **February 15, 2014**. Applications received after that date may be considered until positions are filled. It is anticipated that the appointment will begin in fall 2014.

Texas A&M University is an Equal Opportunity Employer



Faculty Positions Materials Science and Engineering

Physical Sciences & Engineering (PSE) Division at King Abdullah University of Science & Technology (KAUST) invites applications for faculty positions at all ranks (Assistant, Associate, and Full Professor) in the Materials Science & Engineering program.

KAUST offers superb research facilities, generous assured research funding and internationally competitive salaries. www.kaust.edu.sa

The science produced in PSE is about understanding, modeling, and manipulating matter at all scales: nano, meso, and macroscopic levels; in all forms: bulk, thin films, divided colloids, fluid flows, earth as system etc.; and in interaction with external stimuli: light, heat, fluids, etc. or stresses. The knowledge created serves to design and engineer materials, technologies, and systems.

The Materials Science and Engineering (MSE) Program at KAUST currently has 11 full-time faculty members doing research in the areas of: materials synthesis and design, inorganic/organic electronics, alternative energy, advanced characterization, computational methods, nanoscale materials and devices, and related areas. mse.kaust.edu.sa.

The Materials Science & Engineering program seeks candidates with experience in the following areas:

- Organic Solar Cells
- Inorganic Solar Cells
- Solar Cell Modeling & Design
- Physics of Light-Matter Interaction
- Physics of Transport and scattering in disordered systems
- Energy Storage
- Corrosion

Applicants should have a proven track record to establish a high impact research program and have a commitment to high quality teaching at the graduate level.

To learn more about the PSE Division and complete the online application form, visit <http://apptrkr.com/411539>. Application requirements include the following sections:

- Updated curriculum vitae with a full list of publications
- Statement of research
- Statement of teaching interests
- Contact details of at least four potential referees

Applications received by **January 31, 2014** will receive full consideration and positions will remain open until filled.

www.kaust.edu.sa

