



Faculty Positions in MATERIAL SCIENCE AND ENGINEERING PROGRAM



The Physical Science and Engineering (PSE) Division at King Abdullah University of Science and Technology (KAUST) (<http://pse.kaust.edu.sa>) invites qualified applicants to apply for faculty positions at all ranks (Assistant, Associate and Full Professor) in the Material Science and Engineering program.

KAUST offers superb research facilities including core labs, generous assured research funding and internationally competitive salaries. The science produced in PSE focuses on understanding, modeling and manipulating matter at all scales (nano, meso and macroscopic levels), in all forms (bulk, thin films, divided colloids, fluid flows, the earth as system, etc.) and in interaction with external stimuli (light, heat, fluids, stresses, etc.). The knowledge produced serves to help design and engineer cutting-edge materials, technologies and systems.

The Material Science and Engineering (MSE) program at KAUST currently has 15 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 other related areas. The Solar and Photovoltaics Engineering Research Center (SPERC) that carries out cutting-edge research in solar energy is affiliated with the MSE program. More information about the MSE program and its related research activities is available at: <http://mse.kaust.edu.sa>.

We invite applications from exceptional candidates for faculty positions at all ranks in the following areas:

1. Organic-inorganic nanocomposites
2. Material growth by CVD/MBE
3. Inorganic thin film solar cells for SPERC
4. Solar cell device engineering and integration for SPERC
5. Physics of light matter interaction – experimental photonic materials
6. Atom Probe tomography
7. Physics of low dimensional materials

Applicants should have a proven track record, a relevant Ph.D. degree and the ability to establish a high-impact research program. They should also have demonstrable commitment to teaching at the graduate level.

Applicants should apply at the <http://aptrkr.com/705604> employment site.

Applicants will be required to complete a brief application form. They must also upload a single PDF file including the following: a complete curriculum vitae, a list of publications, a research plan, and a statement of teaching interests.

Applications received by January 31, 2016 will receive full consideration but positions will remain open until filled.

mse.kaust.edu.sa

LECTURER OPENING

Department of Materials Science and Engineering

Stanford | ENGINEERING Materials Science & Engineering

The Department of Materials Science and Engineering at Stanford University invites applications for a Lecturer position starting Spring 2016. This is a non-tenure line, full-time position that is renewable in subsequent years.

The candidate's primary responsibility involves teaching one undergraduate lecture course, one seminar course, and two advanced lab courses. Additionally, the candidate will also be expected to contribute to organizing summer undergraduate research programs, as well as other undergraduate initiatives in the department. Applicants should have a strong commitment to and demonstrated aptitude for excellence in teaching. All candidates must hold a PhD degree in one of the following disciplines: Materials Science and Engineering, or a closely related engineering discipline, Chemistry, Physics, or Applied Physics. Further information about the Materials Science and Engineering Department at Stanford can be found at <http://mse.stanford.edu/>.

Applications should include a cover letter, curriculum vitae, teaching statement, material relevant to evaluating the applicant's teaching abilities, and the names of at least three references. Candidates are requested to ask references to send their letters directly to the search committee. Applications and letters should be sent to: Lecturer Search Committee Chair, c/o Yusong Rogers, via electronic mail to: mse_facultyaffairs@stanford.edu (subject line: Lecturer Search 2016).

The review of applications will begin on January 4, 2016. Applications will continue to be accepted until the position is filled, but no later than January 31, 2016.

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

FACULTY APPOINTMENTS

Biomimicry



The University of Akron invites applications for two open-rank faculty appointments to begin in fall 2016. The University of Akron has recently established a **Biomimicry Research and Innovation Center** with collaborations in arts, science, and engineering. Each position will have appointments in two departments, determined by their research and teaching interests. The two hires in 2016 will be in the areas of 1) **Comparative Biomechanics** (appointments in Biology and Mechanical or Biomedical Engineering) (Job #9233), and 2) **Soft Materials** (appointments in two of the following: Polymer Science and Chemistry, or Biology) (Job #9232).

Candidates who are interested in working in interdisciplinary research, across different departments, and across multiple disciplines including arts, science, and engineering are encouraged to apply. These two hires will also have an opportunity to define and shape new positions in the area of biomimicry. The successful candidates will have a PhD degree in any of the sciences or engineering.

Please visit <http://www.uakron.edu/jobs> for complete details and to apply. Refer to Job ID# listed in ad.

EEO/AA Employer/Veterans/Disabled



LECTURER OR SENIOR LECTURER

Department of Materials Science and Engineering | University of Illinois at Urbana-Champaign

The Department of Materials Science and Engineering (www.matse.illinois.edu) invites applications for a full-time, untenured position at the rank of Lecturer or Senior Lecturer. To be considered for a Senior Lecturer position, candidates must have a minimum of 5 years full-time teaching experience as the lead instructor for courses in a University or College engineering or physical science department. We are looking for a dynamic, motivated individual who will contribute to the educational mission of the department. The Lecturer will develop and teach courses in Materials Science and Engineering that will be targeted to undergraduate students. The undergraduate enrollment is approximately 400, the largest of any materials department in the country. The Department is in the midst of an extensive revision of the senior year curriculum that will further advance our already strong emphasis on laboratory instruction and hands-on learning. Successful applicants will be expected to be involved in undergraduate and masters research programs, capstone design projects, and student advising.

The position requires a PhD degree in Materials Science and Engineering or a relevant engineering/scientific field. Prior experience with teaching at the college or university level is preferred.

The position is a full-time, 9-month academic year (9-month service basis paid over 12 months) appointment. Salary is competitive and based on experience. The desired starting date is August 16, 2016. The initial appointment will be for one year with the possibility for renewal on an annual basis thereafter based on funding and performance reviews. The University of Illinois has a codified promotion system for non-tenure track teaching faculty as described at http://provost.illinois.edu/Communication/26/Communication_26.pdf.

Illinois is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, religion, color, national origin, sex, sexual orientation, gender identity, age, status as a protected veteran, or status as a qualified individual with a disability. Illinois welcomes individuals with diverse backgrounds, experiences, and ideas who embrace and value diversity and inclusivity (www.inclusivellinois.illinois.edu).

The closing date is **January 29, 2016**. Interviews may be conducted before the closing date but no decision will be made until after the closing date.

To apply, please create a candidate profile at <https://jobs.illinois.edu> and upload a Curriculum Vitae with the names and contact information for three professional references and a letter of interest which includes teaching interests and evidence of innovative teaching in a university setting.

For further information about the application process, please contact the department by e-mail at mse@illinois.edu or by telephone at 217-333-1440.

We have an active and successful dual-career partner placement program and a strong commitment to work-life balance and family-friendly programs for faculty and staff (<http://provost.illinois.edu/worklife/index.html>).

The University of Illinois conducts criminal background checks on all job candidates upon acceptance of a contingent offer.



Faculty Positions in CHEMICAL SCIENCE PROGRAM



The Physical Science and Engineering (PSE) Division (<http://pse.kaust.edu.sa>) 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 Science Program.

KAUST offers superb research facilities which include the Analytical, the Nanofabrication and Thin film and the Imaging and Characterization core laboratories, generous assured research funding and internationally competitive salaries.

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 Science Program is concerned with chemistry in all its facets including those addressed in KAUST Research Centers, particularly in Catalysis, Membrane, and Solar Energy (<http://chems.kaust.edu.sa>).

The Chemical Science program is currently recruiting in the following areas:

Heterogeneous Catalysis for KAUST Catalysis Research Center: Candidates are expected to have a strong expertise on "catalysis by design" especially on multistep reactions, on the association of various types of catalytic concepts or tools e.g. acid base, -oxidation, -cascade, -confinement effect, -green and sustainable chemistry -in situ, in operando spectroscopies.

Reactor design and process engineering of catalytic reactions for KAUST Catalysis Research Center in relation with the Chemical and Biological Engineering Program: This position should be focusing on "reactor design" and establishment of a 'scale up platform': It will complement the existing areas of expertise in Chemical Science Program and put a greater focus on bridging chemistry and chemical engineering: 'from the bench to the processes': Strong experience with industrial partners is needed.

Polymer Engineering/Processing: Emphasis will be placed on a) the design, characterization, properties and modification of polymeric materials, b) the compounding and processing of polymeric materials and c) the structure property relationships and applications.

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/705562>

Application requirements include the following:

- 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, 2016 will receive full consideration but positions will remain open until filled.



chems.kaust.edu.sa



HARRIS CAREER DEVELOPMENT ASSISTANT PROFESSORSHIP

Energy-Related Computational Materials Science

The Thayer School of Engineering at Dartmouth seeks to fill the **Harris Career Development Assistant Professorship** in energy-related computational materials science and engineering. The successful candidate will have a doctorate in materials science, engineering, or a closely related field; will show promise of leading an externally-funded research program targeting transformational advances in energy conversion and/or utilization via computational modelling and prediction of energy materials; and will be a gifted teacher with motivation and expertise that complements the Thayer School's interdisciplinary approach to engineering education. The successful candidate will contribute to a distinctive research and education program addressing innovative technological responses to societal energy challenges. The Thayer School of Engineering is planning a significant expansion of faculty and programs, and this position is one of several hires in the energy area.

Review of applications will begin January 1, 2016. A complete CV, statement of research and teaching interests, and contact information for three references should be sent as a PDF via email to Thayer.Energy.Materials.Search@dartmouth.edu.

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

Home to Dartmouth College, the Upper Connecticut Valley is a vibrant, academic, and professional community offering excellent schools, lively arts, and an unmatched quality of life in a beautiful setting. Amenities associated with urban areas in Boston, MA, Burlington, VT, and Montreal, QC are all within a few hours' drive.

Dartmouth College is an equal opportunity/affirmative action employer with a strong commitment to diversity. In that spirit, we are particularly interested in receiving applications from a broad spectrum of people, including women, minorities, individuals with disabilities, veterans or any other legally protected group.

NEBRASKA NANOSCIENCE FACILITY POSITIONS

National Nanotechnology Coordinated Infrastructure



The Nebraska Nanoscale Facility (NNF) and Nebraska Center for Materials and Nanoscience (NCMN) at the University of Nebraska-Lincoln (UNL) are seeking several high-level science/engineering personnel. The NNF (<http://nanoscale.unl.edu>) is part of the NSF-supported National Nanotechnology Coordinated Infrastructure (NNCI) consisting of a number of sites distributed across the United States to provide the nation with outstanding facilities for synthesis, fabrication, and characterization of nanoscale materials and structures, and to promote research, education, and outreach in the field. The NNF contains Central and Shared Laboratory Facilities that together contain more than 50 major research instruments and occupy about 20,000 sq. ft. of laboratory space in the new Voelte-Keegan Nanoscience Research Center. Many researchers from UNL and other institutions use these facilities each year, and additional information is available at <http://www.unl.edu/ncmn/>.

NNF FACILITIES COORDINATOR

We seek an energetic and enterprising individual to serve as NNF Facilities Coordinator. The coordinator's prime responsibility is to proactively establish new and foster existing contacts to facility users from industry and academia. In addition, the coordinator will be responsible for logistical aspects of the facilities, including physical space and daily operations; develop collaborations between users and research groups; assist in proposal writing for new equipment and programmatic reviews; and advancing the strategic goals of NNF.

NNF RESEARCH TECHNOLOGISTS (2)

We seek highly motivated individuals capable of performing experimental work in nanofabrication and characterization of a wide variety of materials. The NNF strives for excellence in service to users from industry and academia. To fulfill this mission, the research technologists will assist and train graduate students and other users in the use of sophisticated equipment, repair and upgrade instruments in the facilities, and develop protocols for safe usage of the equipment.

Candidates for all positions must have a PhD degree in Materials Science, Nanoscience, Condensed Matter Physics, or Chemical Sciences. They also should have a successful record of research and/or facility experience in a university, national laboratory, or industry. Candidates must have a broad understanding of materials and nanotechnology fabrication and characterization techniques, excellent communication skills, and the ability to effectively interact with students and faculty from a broad set of disciplines.

These positions are full-time professional appointments with salary commensurate with experience and qualifications. Application review will begin by **January 15, 2016** and will continue until the positions are filled. To view full details and to apply, go to <http://employment.unl.edu> (Requisition F_150280 for the Facilities Coordinator position or F_150281 for the Research Technologist positions). Applicants should submit a cover letter, brief statement of their experience and views on user facility operations, CV, and contact information for four references as single PDF files.

The University of Nebraska-Lincoln is committed to a pluralistic campus community through affirmative action, equal opportunity, work-life balance, and dual careers. See <http://www.unl.edu/equity/notice-nondiscrimination>.



Faculty Positions in CHEMICAL AND BIOLOGICAL ENGINEERING PROGRAM



The Physical Science and Engineering (PSE) Division (<http://pse.kaust.edu.sa>) 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 (CBE).

KAUST offers superb research facilities which includes the BioScience and Bioengineering and Analytical Core laboratories, generous assured research funding and internationally competitive salaries.

The science produced in PSE focuses on understanding, modeling and manipulating matter at all scales (nano, meso and macroscopic levels), in all forms (bulk, thin films, divided colloids, fluid flows, the earth as system, etc.) and in interaction with external stimuli (light, heat, fluids, stresses, etc.). The knowledge produced serves to help design and engineer cutting-edge materials, technologies and systems.

The CBE program offers opportunities to develop real-world solutions to global challenges by leveraging basic discoveries in the chemical and biological sciences. Three KAUST research centers are associated with CBE: KAUST Catalysis Center (<http://kcc.kaust.edu.sa>), Advanced Membranes and Porous Materials (<http://ampm.kaust.edu.sa>), and the Clean Combustion Research Center (<http://ccrc.kaust.edu.sa>).

The CBE Program has open Faculty positions in the following areas of expertise:

Process Modeling and Design for Advanced Membranes and Porous Materials Research Center

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

Biomolecular Engineering (Senior-level Position)

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

Reactor Design and Process Engineering for KAUST Catalysis Center

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

Applicants should have a proven track record to establish a high-impact research program, and should 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/705546>

Application requirements include the following:

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

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cbe.kaust.edu.sa