



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

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

Biological Engineering (Senior-level Position)

- Development and leadership of the Biological 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
- Experience 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/936191>

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, 2017 will receive full consideration but positions will remain open until filled.



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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>) and currently has 14 full-time faculty members.

The Chemical Science program seeks outstanding candidates in the following areas:

Catalysis: Heterogeneous Catalysis being very relevant to oil/gas refinery in Saudi Arabia, priority will be given to “non- classical” approach of: -petroleum refining, -petrochemistry, -new materials for heterogeneous catalysis (new porous materials with control acido-basicity, redox properties, new supports, supported or unsupported nanoparticles) knowledge of kinetics and chemical engineering is welcome.

Reactor design and processes: Research in reactor design and process engineering aiming at scaling up from micro- reactor to commercial applications. Priority will be given to candidates with focus on catalysis and membranes. Candidates should have a strong program and experience in process design.

Polymer Engineering and Processing: Design, synthesis and engineering of polymers is key to industrial applications for Saudi Arabia. Emphasis will be placed on Polymer Reaction Engineering, Polymer Production Technology, Polymer Property Characterization, Polymer Property Modification/Optimization and/or Polymer Processing/Rheology.

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://apptrk.com/936206>

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, 2017 will receive full consideration but positions will remain open until filled.



King Abdullah University
of Science and Technology



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 KAUST Solar Center (KSC) 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:

Organic-Inorganic Nanocomposites - In particular polymer-small molecule and organic-inorganic composites to maximum their performance in the applications based on their electronic, magnetic, thermoelectric and piezoelectric properties.

Metal-Organic Vapor Deposition - Metal Vapor Phase Epitaxy - The candidates should have extensive knowledge and experience in thin film growth and in materials characterization and applications.

Physics of Light Matter Interaction - Encompassing nanophotonics, plasmonics, quantum photonics, non-linear optics, nanowaveguides, active metamaterials, photonic sensors, microcavities, photonic crystals, and nano- and micro- fabricated photonic and optical devices.

Atom Probe Tomography - The candidates should have extensive knowledge and experience in the characterization (3D imaging and chemical composition) of materials with atomic resolution, particularly of nanocomposites and of interfaces.

Physics of Low Dimensional Materials - Particularly multiscale modeling, from the atomic scale to the device, of the electronic, magnetic and optical response of low dimensional materials (1D and 2D).

Scanning Probe and AFM Techniques - Applied to the characterization of surfaces and interfaces of materials and devices using in-situ analysis and scanning probe methods, to understand growth mechanisms, surface modifications and interfacial reactions.

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://apptrkr.com/936218> 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, 2017 will receive full consideration but positions will remain open until filled.



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Applications are invited for:-

**Department of Physics
Research Assistant Professor**
(Ref. 160001PW)

The Department invites applications for a Research Assistant Professorship in experimental quantum physics/materials.

Applicants should have (i) a PhD degree in physics, chemistry or materials science; and (ii) experimental research experience in at least one of the following fields:

- quantum sensing
- microscopy and manipulation of nano-objects
- magnetic resonance spectroscopy
- optical spectroscopy of nanomaterials

The appointee will (a) work closely with faculty members in research on quantum sensing based on diamond and related materials using optically detected magnetic resonance; (b) demonstrate a strong record of research accomplishments, potential for establishing externally funded research programmes; and (c) undertake light teaching duties at undergraduate and postgraduate levels. Information about relevant research in the Department is available at: <http://www.phy.cuhk.edu.hk>.

Appointment will initially be made on contract basis for up to three years commencing as soon as possible, renewable subject to mutual agreement.

Applications will be accepted until the post is filled.

Application Procedure

Applicants should upload a full resume, a brief research statement (not longer than three pages), copies of academic credentials, a publication list and/or abstracts of selected published papers when submitting an application for the post.

The University only accepts and considers applications submitted online for the post above. For more information and to apply online, please visit <http://career.cuhk.edu.hk>.



The College of Engineering at the University of Washington invites applications and nominations for Chair of the Department of Materials Science and Engineering. This tenured, full professor position will lead a department with a long history of dedication to excellence, tremendous growth and accomplishment in research and scholarship, state-of-the-art facilities, and a vibrant materials community at the university. The Chair will build on the department's commitment to undergraduate and graduate education and research, and carry out its mission as an outstanding student-centered organization that provides leadership and service to the University, the State of Washington, the nation, and the international community.

The University of Washington, located in Seattle, the heart of the high-tech pacific northwest, is one of the world's preeminent universities, ranking 14th among public universities in the United States according to the 2015 US News & World Report. The Materials Science & Engineering Department has a tradition of interdisciplinary collaborations and strong partnerships with other academic institutions, national labs, and industry. Major areas of research include opto-electronic materials, biomaterials, biomimetic materials, nanomedicine, printable solar cells, energy storage materials, chemical separation membranes, and manufacturing processes. The Department's faculty have played a central role in major collaborative centers at the University such as the Clean Energy Institute and the Molecular Engineering & Sciences Institute. The department currently consists of 14 active core teaching and research faculty, 145 undergraduates and 90 graduate students. For more information on the department, please visit <http://www.mse.washington.edu>.

The search is open to candidates with a PhD degree or equivalent. An outstanding record of research and undergraduate and graduate education, along with excellence in scholarship and demonstrated leadership and management skills are required. The ability to represent the department with alumni, industry and the community, and lead advancement activities is essential.

Applications should include a cover letter briefly describing qualifications, a statement of goals and aspirations as Chair, and a complete curriculum vitae. Complete information on the position and instructions for submitting applications or nominations are available at: www.engr.washington.edu/facsearch/apply.phtml?pos_id=206.

For any administrative issues related to this search, please contact the MSE Department Search Committee at akneub@uw.edu.

Review of applications will begin immediately and continue until the position is filled. A start date of September 2017 is anticipated.

The University is committed to creating and maintaining a culturally diverse faculty, staff, and student body. Applications from women, minorities, individuals with disabilities, and covered veteran candidates are strongly encouraged. The University of Washington is a recipient of a National Science Foundation ADVANCE Institutional Transformation Award to increase the participation of women in academic science and engineering careers, and an Alfred P. Sloan Award for Faculty Career Flexibility.

University of Washington is an affirmative action and equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, gender expression, national origin, age, protected veteran or disabled status, or genetic information.

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