

XJTU–HKUST JOINT SCHOOL OF SUSTAINABLE DEVELOPMENT

under planning



Founding Department Heads

The Hong Kong University of Science and Technology (HKUST) seeks established academics with a vision to advance education and research in sustainable development to help build in partnership with Xi'an Jiaotong University (XJTU) the planned XJTU-HKUST **Joint School of Sustainable Development** (JSSD), a strategic alliance to combine the strengths of the two universities to address needs on both the regional and global level. To be located in Xi'an, the gateway to the fast-emerging western region of China, the School will focus on training a new generation of graduates who are capable of contributing to sustainable development, a strategic national goal for China and an area that is widely recognized as one of the world's most pressing challenges. English will be the School's language of instruction.

HKUST is a world-class leading research university and has been ranked overall No. 1 university in Asia for the last two years by QS Asian University Rankings®. XJTU, established in 1896, is in the C9 League, which consists of the top nine prestigious universities in China. Both universities are internationally known for their research and educational programs, especially in the areas of the natural and social sciences and engineering. By combining the strengths of the two universities, JSSD will make a fundamental contribution to education in the field of sustainable development and undertake interdisciplinary high-impact research in energy conservation, resource management and environmental protection. Within the next five years, the School is expected to have up to 60 faculty members and an enrollment of more than 1,000 undergraduate and postgraduate students in three departments:

The **DEPARTMENT OF SUSTAINABLE ENERGY** is an interdisciplinary academic unit to be established to provide undergraduate and postgraduate academic programs and undertake cutting-edge research in energy-science and technologies for sustainable development focusing on sustainable use of fossil fuels and their environmental impact, alternative energy sources, energy distribution and storage, system and engineering design for sustainability, and energy policy and management.

The **DEPARTMENT OF SUSTAINABLE MATERIALS** will provide a broad-based undergraduate and postgraduate education in materials science and materials development for sustainability, targeting the frontiers of materials science, and will undertake cutting-edge research in materials sustainability. The academic foci are: fundamentals of materials science and engineering for sustainability; sustainable adoption of materials; design of new materials; and application of sustainable materials.

The **DEPARTMENT OF SUSTAINABLE INFRASTRUCTURE** will provide education and research platforms to study interrelationships among economic and urban development, governance, and regional, national and global ecosystems focusing on the social and physical infrastructure needed for sustainability. The academic foci are: system analysis and related infrastructural issues; public policy and sustainable development; climate dynamics and environmental policy; sustainable living environments; and commerce and ecosystem management.

The founding Department Heads of the three departments will be senior faculty members of HKUST appointed for posting to the JSSD in Xi'an. We are now seeking world-class scholars in the research areas of energy, materials or infrastructure to fill these senior faculty positions at HKUST with tenure. Applicants must meet the high academic and professional standards of the HKUST senior faculty. Candidates appointed to the founding headships, reporting to the Dean of JSSD, will lead the formation of the departments, formulate governance policies, facilitate academic advancement in teaching and research, and take charge of faculty recruitment and resource allocation. They will typically have substantial experience and proven leadership skills in managing major research programs and human resources in an academic or large-scale research setting. They will also be able to help promote the department at the global level, develop collaborative programs and attract major external funding for large interdisciplinary research projects at the national level. We are also ready to explore other opportunities with scholars interested in teaching and research in the relevant areas.

Remuneration is highly competitive and will be commensurate with qualifications and experience. Generous fringe benefits, including housing where appropriate, will also be provided.

Nominations and applications, including a curriculum vitae, a vision statement of the development of the new departments, a brief statement of current interests, as well as the names, addresses, phone numbers and email addresses of at least three references should be sent to: **The JSSD Search Committee, c/o Human Resources Office, The Hong Kong University of Science and Technology, Clear Water Bay, Hong Kong**, or by email to: jssdsearch@ust.hk. Review of nominations/applications will begin immediately and will continue until the positions are filled.

For further information about HKUST and XJTU, please visit the following websites:

HKUST - <http://www.ust.hk>

XJTU - <http://www.xjtu.edu.cn/en/index.html>

(Information provided by applicants will be used for recruitment and other employment-related purposes only.)



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ACADEMIC OPENINGS

FACULTY OPENING, CHEMICAL ENGINEERING & APPLIED CHEMISTRY UNIVERSITY OF TORONTO, LEADERSHIP AND INNOVATION IN SUSTAINABLE INORGANIC PROCESSING

The Department of Chemical Engineering and Applied Chemistry at the University of Toronto invites applications for a tenure-stream appointment in Extractive Metallurgy and related fields. The appointment will be at the rank of Assistant Professor and with a nominal start date of May 1, 2014. The successful candidate will have demonstrated excellence, leadership and innovation in research and teaching. Examples of the areas that are of particular interest include: Aqueous Process Metallurgy – Hydrometallurgy; Biohydrometallurgy; Sustainable Processing of Inorganic Resource Materials at all stages; Mineral Processing; Sustainable Waste Disposal and Resource Recovery, Residue Stability, Environmental Management of Mining Activities. The Faculty of Applied Science and Engineering of the University of Toronto has had a long history of strength in chemical process metallurgy. Our intent is to enhance our strength in extractive metallurgy while at the same time aligning with the key strategic directions of sustainability and energy. The candidate's expertise will be expected to complement our existing strengths in extractive metallurgy, the environment and sustainability and develop links with researchers in the Department of Materials Science and Engineering and the Lassonde Institute of Mining. This academic position is one of several to be offered over the next several years as part of a strategic thrust across several departments to build strength in areas related to sustainability in mining, mineral processing, extractive metallurgy, and materials processing. At this time, there is a simultaneous search by the Department of Materials Science and Engineering for new faculty in areas that are complementary to the list above. Applicants are expected to have a PhD in Chemical, or Metallurgical Engineering, Chemistry or equivalent, and demonstrated excellence in research as well as excellent teaching skills. Postdoctoral or industrial experience is an asset. The successful candidate will be expected to initiate and lead an independent research program of international calibre, and teach in the chemical engineering curriculum at the undergraduate and post-graduate level. Collaborative and inter-disciplinary research and collegial interaction will be important elements in success. Eligibility to register as a Professional Engineer in Ontario is a desirable qualification. Salary will be commensurate with qualifications and experience. **All applicants should apply on-line at <http://uoft.me/how-to-apply>.** Please include

the following materials: a curriculum vitae, a statement of research vision with a five to ten year horizon (three to five pages), and a statement of teaching philosophy and interests. If you have any questions about this position, please contact chair.chemeng@utoronto.ca. Applicants should also arrange for three letters of reference to be sent directly to facultysearch.chemeng@utoronto.ca by September 30, 2013. The search will continue until the position is filled. To ensure consideration, interested individuals should submit complete application materials before September 30, 2013. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas.

INTERNATIONAL PAPER

International Paper is looking for Engineers in the Southern United States. This is a great opportunity to become a part of International Paper's Mills and Manufacturing division.

Do you like having the opportunity to be a fully engaged, hands on as an engineer? Our Engineers spend time near the process, supporting our mill teams. If you have an engineering degree and/or solid related work experience, email your resume in word format to na.recruiting@ipaper.com. The International Paper southeastern and southwestern United States has the following openings:

Process Control Engineer I – Bachelor's in Engineering and/or 3 years process control/process engineering experience.

Project Control Engineer II – Bachelor's in Engineering and/or 5 years process control engineering experience.

Capital Project Engineers – Bachelor's in Engineering with a minimum of 3 years capital project experience in pulp and paper, manufacturing or construction industries desired.

Environmental Engineer II – Bachelor's in chemical engineering with environmental experience.

Project Engineer II – Bachelors in Electrical Engineering with 5 years paper industry control engineering design project experience.

Engineer IV Process Control Engineer – Bachelor's in Engineering or Technical degree preferred. 5 years of industrial DCS and QCS experience preferred.

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TECHNICAL DIRECTOR

FRACTIONATION RESEARCH INC.

FRI is a leading organization in the area of industrial distillation research. Its membership consists of the world's leading engineering, chemical, and refining companies. FRI is seeking to fill the position of Technical Director. The Technical Director is a key part of the FRI Leadership Team and reports to the President. Primary responsibilities include:

- HSE policy, procedures, and training as it relates to safe operation of the experimental unit
- Operation of the experimental unit to meet goals set by FRI membership
- Acting as primary focal point for FRI membership for technical issues and concerns
- Development and deployment of proprietary distillation software.

The position is located in Stillwater, Oklahoma, although some international travel is required. The successful candidate will have a degree in Chemical Engineering (advanced degree preferred) and 10+ years of experience in distillation R&D or its application.

Interested candidates should send their resume to admin@fri.org.

THE DEPARTMENT OF CHEMICAL AND BIOLOGICAL ENGINEERING AT THE UNIVERSITY OF MAINE invites applications for a full-time, academic year, non-tenure track Lecturer. The candidate must have an M.S. degree in either Chemical Engineering or Bioengineering/Biomedical Engineering or a closely related field in addition to substantial professional experience or a Ph.D. degree in either Chemical Engineering or Bioengineering/Biomedical Engineering, or a closely related field. **For additional information please see <http://jobs.umaine.edu/blog/2013/05/30/lecturer/>.** The University of Maine is an EO/AA Employer.

Visit AIChE's CareerEngineer Job Board for Additional Employment Opportunities
<http://careerengineer.aiche.org> or <http://www.aiche.org>
(Career Resources then Find a Job)

Some of the many positions found on AIChE's targeted chemical industry job board include:

- **Process Engineer** – *DuPont Industrial Biosciences*
- **Continuous Improvement Specialist** – *Georgia Pacific*
- **Sr. Research Associate** – *Avantor Performance Materials*
- **Plant Engineer** – *POET-DSM Project Liberty*
- **Process and Technical Safety Engineer** – *Shell Canada Limited*
- **Global Analytical Manager** – *FMC Corporation*
- **Sr. Principal Scientist/Associate Research Fellow** – *Pfizer, Inc.*
- **Engineering and Maintenance Manager** – *BASF-The Chemical Company*
- **Fermentation Segment Business Development** – *Cargill, Incorporated*
- **Analyst II** – *I.H.S.*

FLUOR

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Fluor is Currently Seeking Process Engineers:

JOB DESCRIPTION:

Process Engineer responsible for the front-end and detailed engineering of refinery units, petrochemical and specialty chemical plants, gas-to-liquids (GTL) plants, coal gasification units, and oil & gas processing facilities. This role requires creativity, conceptual design capabilities, and sound knowledge of chemical engineering principles. Supervisory experience is a plus.

RESPONSIBILITIES:

- Prepares overall process designs and specifications of onsite, offsite, and utility systems
- Develops system design parameters
- Develops process simulation models and process optimization for various parts or units of the total plant
- Calculates heat and material balances
- Designs Process Flow Diagrams (PFDs)
- Designs Piping and Instrumentation Diagrams (P&IDs)
- Specifies equipment and instrumentation
- Participates in design and safety reviews
- Interfaces with client and project engineering teams

REQUIREMENTS:

- Bachelor Degree (or equivalent) and/or an advanced degree in Chemical Engineering required
- Minimum of 5 years experience in engineering design or operating plant, front-end engineering experience preferred
- Exposure to software platforms such as Hysys, Pro II, Aspen, SmartPlant also a plus



Contact Tonya Brown at
tonya.brown@fluor.com
www.fluor.com/careers

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