



Chemical Engineering & Applied Chemistry UNIVERSITY OF TORONTO

Faculty Opening

Associate Professor - Bioengineering/Applied Bioscience

Chemical Engineering and Applied Chemistry, University of Toronto

The Department of Chemical Engineering and Applied Chemistry invites applications for a tenure-stream appointment in bioengineering or bioscience applied to environmental, energy or food systems. The appointment will be at the rank of Associate Professor and with an expected start date of July 1, 2019, or shortly thereafter.

The successful candidate will have demonstrated excellence, leadership and innovation in research and teaching. Candidates must have experience in at least two of the areas below:

- Complex biological systems, including microbial community engineering for water and waste treatment and reuse
- Sustainable bioprocessing and biochemical engineering
- Applied biochemistry and enzymology for biocatalysis and bio-pathway development; enzyme discovery; protein discovery, structure-function and protein engineering; synthetic biology applications for environmental and industrial biotechnology
- Genomics and metabolomics; advanced mass spectrometry applied to biological systems
- Computational biology, genome-scale metabolic modeling and data analytics for bioprocess development
- Areas of application include but are not limited to biohydrometallurgy, resource recovery, biorefining and forest products, renewable energy, carbon capture, bioremediation, bioreactor design and Life Cycle Analysis

Applicants are expected to have a PhD in Chemical, Civil, Biological or Environmental Engineering, or in Biochemistry, Microbiology or Chemistry or a related field. Applicants are expected to have at least five years of academic experience, which could include a combination of Postdoctoral fellowships, tenure-stream or tenured appointments or equivalent positions, or at least five years of relevant industrial experience in one or more of the fields listed above. Candidates should have a demonstrated exceptional record of excellence in research and teaching. Excellence in research is evidenced primarily by sustained and impactful publications in leading journals or significant conferences, the submitted research statement, distinguished awards and accolades, other noteworthy activities that contribute to the visibility and prominence of the discipline, and a high profile in their field with strong endorsements by referees of high international standing. Evidence of excellence in teaching will be provided through accomplishments, the teaching dossier submitted as part of the application including a

strong teaching statement, sample course materials, and teaching evaluations, as well as strong letters of reference.

The successful candidate will have an established international reputation and will be expected to sustain and lead an outstanding, innovative, independent, externally funded research program of international calibre, and teach in the chemical engineering curriculum at the undergraduate and post-graduate level. Collaborative and interdisciplinary research and collegial interaction will be important elements in success. Eligibility to register as a Professional Engineer in Ontario is a desirable qualification.

The Department of Chemical Engineering and Applied Chemistry at the University of Toronto is committed to its vision statement "Through leading edge research and innovation, we integrate chemistry, biology and engineering to drive solutions to global challenges in energy, the environment and health". The Department has had a long history of strength in biological, biochemical, food and environmental engineering. Our intent is to enhance our strength in applied bioscience and bioengineering. The candidate's expertise will be expected to complement our existing strengths in BioZone (<http://www.biozone.utoronto.ca>), the Pulp and Paper Centre, the Institute for Water Innovation (IWI) and the Institute for Sustainable Energy (ISE), among many other centres at the University of Toronto focussing on urgent societal needs in energy, the environment, nutrition and health. A track record and interest in collaboration across multiple disciplines (e.g. engineering, biological sciences, environmental microbiology, biochemistry, computer science and social sciences) is a key element of the position.

Salary will be commensurate with qualifications and experience. All qualified applicants are invited to apply on-line by clicking on the link below. Please include the following materials: a cover letter, a curriculum vitae, a statement of research vision with a five to ten year horizon (three to five pages), up to three sample publications, and a teaching dossier including a statement of teaching philosophy and interests, sample syllabi, and teaching evaluations. If you have any questions about this position, please contact chair.chemeng@utoronto.ca. All application materials must be submitted online. Please combine attachments into one or two files in PDF/MS Word format. Submission guidelines can be found at <http://uoft.me/how-to-apply>.

Applicants should also arrange for three letters of reference (signed and on letterhead) to be sent directly by the referees to facultysearch.chemeng@utoronto.ca by February 18, 2019.

Review of applications will begin on February 18, 2019, and to ensure full consideration applicants should endeavor to have all materials, including reference letters, submitted by then; however applications will be accepted until the position is filled. More information on the Department of Chemical Engineering & Applied Chemistry's academic plan is available at: https://chem-eng.utoronto.ca/wp-content/uploads/2018/04/2015ChemE_SS_pg9-10_insert.pdf. For more information on the Department, please visit www.chem-eng.utoronto.ca.

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons / persons of colour, women,

Indigenous / Aboriginal People of North America, persons with disabilities, LGBTQ persons, and others who may contribute to the further diversification of ideas. As part of your application, you will be asked to complete a brief Diversity Survey. This survey is voluntary. Any information directly related to you is confidential and cannot be accessed by search committees or human resources staff. Results will be aggregated for institutional planning purposes. For more information, please see <http://uoft.me/UP>.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.