



Chemical Engineering & Applied Chemistry UNIVERSITY OF TORONTO

Faculty Opening

Assistant 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 Assistant Professor 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, at the time of appointment or soon after. Candidates should have demonstrated excellence in research as well as excellent teaching skills. Excellence in research is evidenced primarily by publications or forthcoming publications in leading journals or conferences, the submitted research statement, presentations at significant conferences, awards and accolades, and strong endorsements by referees of high standing. Postdoctoral or industrial experience is an asset. Evidence of excellence in teaching will be demonstrated

by the statement of teaching philosophy, teaching accomplishments, and a teaching dossier including sample syllabi and teaching evaluations or other evidence of superior performance in teaching-related activities, as well as strong endorsements. Other teaching related activities can include performance as a teaching assistant or course instructor, experience leading successful workshops or seminars, student mentorship, or excellent conference presentations or posters.

The successful candidate will be expected to initiate and lead an outstanding, independent, innovative, externally funded 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.

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 (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 online 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, and sample syllabi and teaching evaluations or evidence of superior performance in other teaching-related activities as listed above. 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 info 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.