

University of Toronto
Faculty of Applied Science and Engineering
Mechanical and Industrial Engineering Department

Posting Date: May 27, 2019

Area of Research: Electrocatalytic Conversion of CO₂

Description: The conversion of CO₂ into valued products using renewable electrical energy is a route to displace fossil fuel sources, reduce CO₂ emissions and provide storage of intermittent renewables. The Sinton Lab (www.sintonlab.com) is seeking a postdoctoral fellow in this area, particularly with expertise in the electrocatalytic conversion of CO₂. The group is mission-driven, and the mission is to achieve energy efficient conversion of CO₂ to valued, large-market products and feedstocks including methane, ethanol, propanol and ethylene. Meeting this challenge will require excellence and innovation in both chemistry and systems engineering. We see particularly exciting opportunities where the chemistry and systems aspects are evolved together, where the catalyst structure inspires the reactor structure, and vice versa. This PDF will be integrated within a diverse and dynamic sub-group and work in collaboration with members of the Sargent Lab.

Our labs are located in the Mechanical Engineering building at the Downtown Toronto Campus (St. George) at the University of Toronto. The successful candidate is expected to both lead independent research and be a resource within this multidisciplinary team. The candidate will also liaise directly with industrial partners and contribute to funding and commercialization efforts.

Salary: \$50,000/year

Expect start date: September 1, 2019

Term: One-year contract with a possible renewal

FTE: 100%

Requirements: Candidates must have a PhD in Chemistry or Engineering, and have a strong track-record of academic excellence and research impact.

The normal hours of work are 40 hours per week for a full-time postdoctoral fellow (pro-rated for those holding a partial appointment) recognizing that the needs of the employee's research and training and the needs of the supervisor's research program may require flexibility in the performance of the employee's duties and hours of work.

Application Instructions: Highly motivated applicants are invited to send a cover letter, a CV, and a list of three references as a single PDF file to David Sinton (sinton@mie.utoronto.ca)

Closing date: June 30, 2019

Employment as a Postdoctoral Fellow at the University of Toronto is covered by the terms of the CUPE 3902 Unit 5 Collective Agreement. This job is posted in accordance with the CUPE 3902 Unit 5 Collective Agreement.

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.