

Seeking exceptional PhD student

The Research

We are working on a technology, called CO₂ reduction electrocatalysis, which converts renewable electricity and CO₂ into fuels and chemical feedstocks. The successful applicant will be responsible for developing device-level multiphysics models to predict device performance, and working closely with peers working on experiments. The work will involve both developing new codes (e.g., in Python or MATLAB) and using commercial software (e.g., COMSOL).

Contact

Dr. Jackson Crane, Assistant Professor

Department of Mechanical
and Materials Engineering

Email: jackson.crane@queensu.ca

Who we're looking for

We are seeking exceptional applicants seeking doctoral (PhD) degrees. The successful candidate will receive a \$35,000 stipend for 4 years in addition to TA income (\$4,400 per year minimum), under the Bruce Mitchell Research Program, to start between September 2024 and September 2025. Experience with and desire to work on computational projects is required. Past experience with electrocatalysis and commercial software like COMSOL is desired but not mandatory. Both international and Canadian domestic applicants are welcome. The project will be co-supervised by Dr. Jackson Crane and Dr. Cao-Thang Dinh at Queen's University in Canada.