



## Postdoctoral Position in Catalyst Development for CO<sub>2</sub> Conversion Using DFT/ML

We are looking for a motivated and qualified scientist with a passion for clean energy and interdisciplinary research to fill a postdoctoral position. The goal is to apply and develop machine learning algorithms in catalysis to discover new materials for electrochemical CO<sub>2</sub> reduction reaction. The project is in collaboration between University of Calgary and National Research Council of Canada. Successful candidates will be required to work within a team environment and so excellent communication skills and the ability to work effectively with a diverse group of interdisciplinary researchers is a must.

### Qualifications:

1. A Ph.D degree in Chemistry, Physics, Chemical Engineering, Materials Science, Computer Science or related fields.
2. Previous experience and knowledge of the most common machine learning tools and techniques (e.g. Scikit-learn, TensorFlow) as well as computational chemistry/physics and density functional theory codes (e.g. VASP, Quantum Espresso).
3. Good communication skills, ability to work independently and in a team environment, and strong interest in computational catalysis are essential

Postdoctoral position offers a stipend of \$50,000 CAD/year for 2 years, plus benefits, travel and computer allowance. Postdoctoral fellow will be expected to apply for major funding opportunities they are eligible for (e.g. NSERC, Killam, AITF, Banting).

### Application details:

Applications should consist of a current CV, a list of 2-3 referees with contact information and a cover letter indicating your background, skills and availability. Documents should be emailed in a single PDF file to Dr. Samira Siahrostami at [samira.siahrostami@ucalgary.ca](mailto:samira.siahrostami@ucalgary.ca). The position is available immediately and the search will continue until the team is assembled.

**In assembling the teams, aggressive diversity and equity targets are in place and so applications from under-represented groups are especially encouraged<sup>1</sup>.**

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<sup>1</sup>The University of Calgary recognizes that a diverse staff/faculty benefits and enriches the work, learning and research experiences of the entire campus and greater community. We are committed to removing barriers that have been historically encountered by some people in our society. We strive to recruit individuals who will further enhance our diversity and will support their academic and professional success while they are here; in particular, we encourage members of the four designated groups (women, Aboriginal People, persons with disabilities and members of visible minorities) to apply. All qualified candidates are encouraged to apply; however Canadians and permanent residents will be given priority. To ensure a fair and equitable assessment, we offer accommodation at any stage during the recruitment process to applicants with disabilities. Questions regarding diversity or requests for accommodation can be sent to Human Resources ([hrhire@ucalgary.ca](mailto:hrhire@ucalgary.ca)).

To be eligible as a Postdoctoral scholar at the University of Calgary, the candidate must have been awarded a PhD or equivalent within the five (5) years immediately preceding the appointment. Please review the [Eligibility](#) page for more information prior to applying for this position.