



# Indigenous.Link

Canada's fastest growing Indigenous career portal, Careers.Indigenous.Link is pleased to introduce a new approach to job searching for Indigenous Job Seekers of Canada. Careers.Indigenous.Link brings simplicity, value, and functionality to the world of Canadian online job boards.

Through our partnership with Indigenous.Links Diversity Recruitment Program, we post jobs for Canada's largest corporations and government departments. With our vertical job search engine technology, Indigenous Job Seekers can search thousands of Indigenous-specific jobs in just about every industry, city, province and postal code.

Careers.Indigenous.Link offers the hottest job listings from some of the nation's top employers, and we will continue to add services and enhance functionality ensuring a more effective job search. For example, during a search, job seekers have the ability to roll over any job listing and read a brief description of the position to determine if the job is exactly what they're searching for. This practical feature allows job seekers to only research jobs relevant to their search. By including elements like this, Careers.Indigenous.Link can help reduce the time it takes to find and apply for the best, available jobs.

The team behind Indigenous.Link is dedicated to connecting Indigenous Peoples of Canada with great jobs along with the most time and cost-effective, career-advancing resources. It is our mission to develop and maintain a website where people can go to work!

Contact us to find out more about how to become a Site Sponsor.

Corporate Headquarters:

Toll Free Phone: (866) 225-9067

Toll Free Fax: (877) 825-7564

L9 P23 R4074 HWY 596 - Box 109

Keewatin, ON P0X 1C0

# Job Board Posting



Careers.Indigenous.Link

Date Printed: 2024/05/04

## Research Officer In CO2 Conversion Technologies

<b>Job ID</b>	<b>5B-57-A0-C5-63-BD</b>	
<b>Web Address</b>	<a href="https://careers.indigenous.link/viewjob?jobname=5B-57-A0-C5-63-BD">https://careers.indigenous.link/viewjob?jobname=5B-57-A0-C5-63-BD</a>	
<b>Company</b>	National Research Council Canada	
<b>Location</b>	Mississauga, Ontario	
<b>Date Posted</b>	From: 2019-05-23	To: 2019-06-19
<b>Job</b>	Type: Full-time	Category: Miscellaneous
<b>Job Salary</b>	From \$52,854 To \$149,416 Per Annum	
<b>Languages</b>	English	

### Description

#### Your Challenge

Help bring research to life and drive your career forward with the National Research Council of Canada (NRC), Canada's largest research and technology organization.

We are looking for a Research Officer (RO) in CO2 Conversion Technologies to support our new NRC Research facilities in Mississauga. The facility in Mississauga is the first NRC Research Facility in the Greater Toronto Area and will be an innovation ecosystem hub and a catalyst for accelerating the development and commercialization of advanced materials. The selected candidate would be someone who shares our core values of Integrity, Excellence, Respect and Creativity. You will support the goals of NRC and the Energy, Mining and Environment Research Centre through research and the development and application of advanced technologies. You will be working in a team environment with researchers and technical experts in world-class facilities. You will synthesize, test and scale the production of new catalytic materials for renewably-powered CO2 conversion to fuels and chemicals; you will lead a collaborative team of researchers and will manage collaborations with external partners within the energy and chemical industries, academia and other researchers in Canada and internationally. You will have demonstrated research excellence in the form of high-impact publications, patents, awards, and conference presentations. You will have familiarity with research proposals and funding in the Canadian ecosystem. A post-doctoral research experience, particularly in the private sector, is preferred.

Projects will be diversified and will include activities in development and production scale-up of catalytic materials (primarily electrocatalytic), membranes, and CO2 conversion devices. Some of these activities will be aimed at the development of a platform for accelerated catalyst development to speed the discovery and evaluation of new materials. Your responsibilities will include development of new research initiatives, preparation of research proposals, management of R&D projects, maintenance of research partnerships and advancing CO2 conversion technologies toward commercialization. Your role will require that you lead multidisciplinary research projects in collaboration with leading academic groups and early-stage SMEs.

Being in a dynamic position means that the workdays are always evolving, challenging and

motivating. You are a self-starter who can excel in an evolving and exciting R&D environment and provide input into the direction and priorities of R&D activities that will be set forth by this new initiative in Mississauga. If you're that person, then this may be the perfect role for you! In joining our team, you will enjoy a wide range of benefits including comprehensive health and dental plans, pension and insurance plans, vacation and other leave entitlements.

#### Relocation

Relocation assistance will be determined in accordance with the NRC's directives.

#### Salary Range

This position is classified as a Research Officer (RO), a group that is unique to the NRC. The RO group uses a person-based classification system instead of the more common duties-based classification system. Candidates are remunerated based on their expertise, skill, outcomes and impacts of their previous work experience. The salary scale for this group is vast, from \$52,854 to \$149,416 per annum, which permits for employees of all levels from new graduates to world renowned experts to be fairly compensated for their contributions.

#### Experience

- Recent and relevant experience in electrocatalysis including significant experience in one or more of the following: CO<sub>2</sub> reduction reaction, hydrogen evolution reaction, oxygen evolution reaction, and nitrogen reduction reaction;

- Recent and relevant experience in materials synthesis and characterization with familiarity in using the following techniques/equipment:

- Microscopy: TEM, SEM, EBSD, STEM

- Spectroscopy: UV-Vis, XPS, XAS, Auger, MS

- Gas analysis: GC, GC-MS, SIFTS

- Liquid analysis: HPLC, NMR

- Recent experience in production of devices and components commonly used in devices for electrocatalysis, including gas diffusion electrodes, membrane electrode assemblies, and electrolyzers;

- Experience in experimental design and analysis including data collection and analysis, overseeing data production, and ensuring data quality;

- Experience in working in multi-disciplinary teams and overseeing the activities of other researchers, students and technicians;

- Experience in the full spectrum of research activities including identification of research requirements, proposal writing, project management, data production and analysis, and reporting through written documentation, presentations and publishing; and

- Some experience in business development and/or the development and oversight of partnerships and collaborations.

#### Education Requirements

PhD in materials science, chemistry, chemical engineering or related areas with solid expertise and relevant experience in the last five years in electrocatalysis, particularly with application to CO<sub>2</sub> conversion.

#### Equivalency

PhD in materials science, chemistry, or chemical engineering or related areas, along with significant and relevant R&D experience in broader area of catalysts associated with the CO<sub>2</sub> reduction

reaction, hydrogen evolution reaction, oxygen evolution reaction, and/or the nitrogen reduction reaction conversion, and development of related devices will be considered.

### **Essential Skills**

#### Technical Competencies

- â€¢Excellent written and oral communication skills;
- â€¢Knowledge of CO<sub>2</sub> conversion technologies;
- â€¢Knowledge in electrocatalysis;
- â€¢Ability to lead a technical research team;
- â€¢Ability to conduct laboratory activities on material synthesis;
- â€¢Ability to plan experiments, analyze data and ensure data quality; and
- â€¢Knowledge of materials characterization and materials processing techniques.

### **Work Environment**

#### Condition of Employment

Secret (II)

### **Additional Skills**

#### Behavioural Competencies

- â€¢Research - Communication (Level 2)
- â€¢Research - Creative thinking (Level 3)
- â€¢Research - Initiative (Level 2)
- â€¢Research - Partnering (Level 2)
- â€¢Research - Results orientation (Level 2)
- â€¢Research - Teamwork (Level 2)

### **Other**

#### Notes

- â€¢A pre-qualified list may be established for similar positions for a one year period.
  - â€¢This position is being advertised internally and externally simultaneously, however first consideration will be given to internal NRC applicants.
  - â€¢NRC employees enjoy a wide-range of benefits including comprehensive health and dental plans, pension and insurance plans, vacation and other leave entitlements.
  - â€¢Preference will be given to Canadian Citizens and Permanent Residents of Canada. Please include citizenship information in your application.
  - â€¢The incumbent must adhere to safe workplace practices at all times.
- Please direct your questions, with the requisition number (6726) to:  
E-mail: [NRC.NRCHiring-EmbaucheCNRC.CNRC@nrc-cnrc.gc.ca](mailto:NRC.NRCHiring-EmbaucheCNRC.CNRC@nrc-cnrc.gc.ca)  
Telephone: 450-641-5132  
Closing Date: 19 June 2019 - 23:59 Eastern Time

### **How to Apply**

Please apply using the "Click for Details" link below...