



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.Link's 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:
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Job Board Posting



Careers.Indigenous.Link

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POST DOCTORATE FELLOW

Job ID	36540-2512	
Web Address	https://careers.indigenous.link/viewjob?jobname=36540-2512	
Company	McMaster University	
Location	Hamilton, ON	
Date Posted	From: 2021-02-15	To: 2050-01-01
Job	Type: Full-time	Category: Education

Description

DescriptionDesign and conduct research while receiving advanced training from a designated Principal Investigator to enhance professional skills and research independence needed for pursuit of a research career. Develops and evaluates numerical models. Designs and evaluates experiments. Develops new ideas that promote current research. Prepares and publishes scientific manuscripts under the direction of the Principal Investigator. May be responsible for operation of specific equipment. May teach techniques to others, train, and supervise research staff. The initial appointment is for one year, renewal expected if progress is satisfactory and funds are available.

Minimum QualificationsA doctoral degree (Ph.D.) in an appropriate field (e.g. engineering, physics, mathematics, etc.). Experience with experimental design and numerical modelling in control and operation of thermal and electrical system processes. Experience connecting local PLC device controllers to supervisory control and optimization systems, such as Energy Management Systems. Familiarity with coding and APIs (Python, Matlab, Labview) to couple local controllers with simulation and optimization software (Multi-Agent Based Control, GAMS, VOLTTRON) that automate process flow using predictions (Building Energy Modeling Software). Familiarity with data analytics, machine learning and Equation Based Modeling systems (i.e. Modelica, AMESim, Simscape). Excellent scientific writing ability and strong oral communication skills. The ability to work effectively and collegially with colleagues. Additional qualifications as specified by the Principal Investigator. Additional DetailsThe Integrated Community Energy and Harvesting Systems Lab seeks a postdoctoral fellow with world-class expertise in the area of Distributed Energy Resources (DER) integration, building and community level thermo-fluid and electrical system design and control optimization. The applicant will join a large multi-disciplinary research team that uses a systems-level approach to integrate thermal and electrical energy generation, storage, distribution and consumption at the community level that significantly reduces greenhouse gas (GHG) emissions. This will entail numerical model development and validation of a variety of DER approaches, and the amalgamation of individual modelling components into a holistic software package capable of optimizing and simulating both thermal and electrical microgrid system performance, while considering GHG emissions and economics.

For more information, visit McMaster University for POST DOCTORATE FELLOW