



# 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

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# Job Board Posting



Careers.Indigenous.Link

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## Postdoctoral Fellowship, Bluff Body Aerodynamics

<b>Job ID</b>	<b>A7-CC-76-49-36-57</b>	
<b>Web Address</b>	<a href="https://careers.indigenous.link/viewjob?jobname=A7-CC-76-49-36-57">https://careers.indigenous.link/viewjob?jobname=A7-CC-76-49-36-57</a>	
<b>Company</b>	National Research Council Canada	
<b>Location</b>	Ottawa , Ontario	
<b>Date Posted</b>	From: 2019-05-06	To: 2019-05-22
<b>Job</b>	Type: Full-time	Category: Engineering
<b>Job Salary</b>	From \$52,854 To \$149,416 Per Annum.	
<b>Languages</b>	English	

### Description

#### The Program

The NRC's Postdoctoral Fellowship program offers PDFs access to unique world-class facilities and the opportunity to work alongside multi-disciplinary teams of expert researchers and technicians on projects of critical importance to Canada. PDFs will carry out research on innovative research projects, with opportunities for career development (publications and/or industry interaction).

PDFs will be offered appointments to the staff of the National Research Council on a term basis and will be offered salaries and benefits currently available to Research Officers or Research Council Officers.

Salaries commensurate with experience are taxable and subject to other deductions. As a guide, the current annual PhD recruiting rate is \$68,567. In addition PDFs will be allocated a travel fund to support their work.

#### Project Title

Channelled-Roadway Wind Modeling for the Prediction of GHG Emissions from Ground Vehicles in Canada.

#### Your Challenge

Regulatory efforts to reduce GHG emissions from transportation in Canada and around the world require improved prediction of how new vehicle technologies perform. Aerodynamic technologies are evaluated in idyllic scenarios that don't necessarily represent the real wind conditions experienced on the road, and generally under-represent the associated GHG emissions. Understanding the wind climate in which vehicles operate is critically important. NRC has been working on a simulation environment to predict better the real-world aerodynamic behaviour of ground vehicles to permit accurate forecasting of fuel-savings and GHG reductions. The objective of the proposed research project is to investigate the complex wind environment experienced by vehicles in channelled roadways (for example, in urban centres or rural forested areas) and to improve the fidelity of NRC's road-wind-climate simulation environment through supplementary models. These scenarios pose significant challenges for wind-modeling efforts to date. Through two experimental investigations, including field tests on Canadian roads and wind-tunnel tests at NRC, the PDF will be expected to develop supplementary models for these specific environments, leading to knowledge generation and technology advancement that will support NRC's clients, including other government departments and the Canadian transportation industry.

#### Relocation

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

#### Salary Range

From \$52,854 to \$149,416 per annum.

The Postdoctoral Fellowships Program is unique to the NRC. It falls under the RO/RCO classification system which 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. As a guide, the current annual PhD recruiting rate is \$68,567.

### Experience

Experience in experimental design, wind tunnel testing, and programming in MATLAB would be considered as strong assets. The candidate must be able to work collaboratively as a member of a research and technical team as well as

independently to plan and execute their experiments. It would be an asset for the candidate to have a driver's licence that is valid in Canada.

### **Education Requirements**

Ph.D. in mechanical, aerospace, or civil engineering, with a specialization in bluff-body aerodynamics, wind engineering, or turbulence.

### **Essential Skills**

Condition of Employment

Reliability Status

Who is eligible

• Fellowships will be for two years contingent on satisfactory progress achieved during the first year.

• Candidates should have obtained a PhD (or equivalent) within the past three years (PhD received on or after July 1, 2016) or expect to complete their PhD within 6 months of appointment.

• Fellows will work in a lab under the direct supervision of an NRC researcher.

Although preference will be given to Canadian citizens and Permanent Residents, Fellowships are open to nationals of all countries. The offer of a Fellowship does not ensure foreign nationals Permanent Residency in Canada.

Non-Canadian candidates should apply for non-immigrant status (i.e. temporary status) and an employment visa. For further information, please contact the closest Canadian High Commission, Embassy or Consulate in your area.

### **Application Requirements**

In order to be considered for the program please include the following in your application, please note that you will need to attach the required documents as per the list below when submitting your application. Failure to do so will result in your application being excluded from consideration.

• Resume

• Statement of Interest in the project (maximum one page in length)

• PhD Transcript - an electronic copy is sufficient, it does not have to be an official version.

• List of Publications

• Three letters of recommendation (please note that you need to attach the letters to your application profile, your referees will need to provide you with their letters)

When submitting your application you can include the required documents in any attachment field such as "Second language evaluation results" or "Other attachments"

### **Other**

Notes

• NRC employees enjoy a wide-range of benefits including comprehensive health and dental plans, pension and insurance plans, vacation and other leave entitlements.

• Fellowships are open to nationals of all countries, although preference will be given to Canadian Citizens and Permanent Residents of Canada. Please include citizenship information in your application.

• The incumbent must adhere to safe workplace practices at all times.

As an employer who values diversity in its workforce, we encourage candidates to self-identify as members of the following designated groups: women, visible minorities, aboriginal peoples and persons with disabilities. Measures for accommodation are available to all candidates retained for further assessment.

Please direct your questions, with the requisition number (6498) to:

E-mail: [NRC.NRCHiring-Embauche@nrc-cnrc.gc.ca](mailto:NRC.NRCHiring-Embauche@nrc-cnrc.gc.ca)

Telephone: 613-991-2024

Closing Date: May 22, 2019 - 23:59 Eastern Time. As such, awards will be announced the end of June/beginning of July 2019. Successful fellows may commence their award at any time from July 15, 2019 to December 16, 2019.

### **How to Apply**

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