



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:

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Job Board Posting



Careers.Indigenous.Link

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Research Officer, Aerial Robotics/Agent Ou Agente De Recherches, Robotique Aerienne

Job ID	3F-13-1C-9B-11-DA	
Web Address	https://careers.indigenous.link/viewjob?jobname=3F-13-1C-9B-11-DA	
Company	National Research Council Canada	
Location	Montreal, Quebec	
Date Posted	From: 2024-03-28	To: 2024-04-26
Job	Type: Full-time	Category: Engineering
Job Salary	From \$62,071 To \$175,466 Per Annum	
Languages	Bilingual Imperative BBB/BBB	

Description

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, Aerial Robotics to support our Aerospace Research Centre. The Research Officer (RO) would be someone who shares our core values of Integrity, Excellence, Respect and Creativity. The Research Officer provides leadership, and technical support, and systems oversight in the day-to-day operations of the aerial robotics team.

Working with other members of the team, the Research Officer will:

- Develop solutions for aerial robotics systems including vision, perching system, UAV swarming, manipulation and sensor deployment;
- Author, review, and critique research plans, technical reports and papers;
- Assist in the development of research proposals including collaboration with external partners;
- Present research findings in technical forums including conferences, seminars, working groups, etc. This may include authoring conference & journal papers;

When necessary, travel to client site to provide deployment support of technologies and conduct interface and/or integration testing.

Contribuez a la realisation de travaux de recherche strategiques et poursuivez une carriere prometteuse au Conseil national de recherches du Canada (CNRC), la plus grande organisation de recherche et de technologie au Canada. Nous souhaitons embaucher un agent ou une agente de recherche, Robotique aerienne en vue de soutenir le Centre de recherche en aerospatiale. La personne choisie doit partager nos valeurs fondamentales relatives a l'integrite, a l'excellence, au respect et a la creativite.

L'agent ou agente de recherches assure le leadership, le soutien technique et la supervision des systemes dans les operations quotidiennes de l'equipe de robotique aerienne.

En collaboration avec les autres membres de l'equipe, l'agent ou agente de recherches devra :

- Developper des solutions pour les systemes de robotique aerienne, y compris la vision, le systeme de perchage, l'essaimage de drones, la manipulation et le deploiement de capteurs;
- Rediger, examiner et critiquer des plans de recherche, des rapports techniques et des documents;
- Participer a l'elaboration de propositions de recherche, y compris en collaboration avec des partenaires externes;
- Presenter les resultats de la recherche dans des forums techniques, notamment des conferences, des seminaires, des groupes de travail, etc. Cela peut inclure la redaction d'articles pour des conferences et des revues;
- Si necessaire, se rendre sur le site du client pour fournir une assistance au deploiement des technologies et effectuer des tests d'interface et/ou d'integration.

Experience

Experience in development & integration of mechatronic systems, with an emphasis on Remotely Piloted Aircraft Systems

Experience in dynamics and control of RPAS, including experience in technology development using Pixhawk

controllers

Experience with programming & scripting languages including Matlab, C/C++ & Python

Experience in identification of research requirements, proposal writing, project management, data production & analysis, ensuring data quality & reporting through written documentation, presentations & publishing peer-reviewed research papers

Some experience in the development of partnerships & collaborations

Experience in the following are assets:

Experience in computer vision and Simultaneous Localization & Mapping (SLAM)

Hands on experience in 3D printing of mechanical parts and systems

Experience in the following software environments:

- ROS/ROS2

- AirSim

- MATLAB/Simulink

Experience dans le dev. et l'integration de systemes mecatroniques, avec un accent sur les systemes d'aeronefs teleguides

Experience de la dynamique et du controle des systemes d'aeronefs telepilotes, y compris experience du dev. technologique a l'aide des controleurs Pixhawk

Experience des langages de programmation et de script, notamment Matlab, C/C++ et Python;

Experience dans l'identification des exigences de recherche, la redaction de propositions, la gestion de projets, la production et l'analyse de donnees, l'assurance de la qualite des donnees et l'etablissement de rapports par le biais de docs ecrits, de presentations et de la publication d'articles de recherche evalues par des pairs

Une certaine experience dans le dev. de partenariats et de collaborations.

Une experience dans les domaines suivants est un atout:

Experience en visionique et en localisation et cartographie simultanees (SLAM).

Experience pratique de l'impression 3D de pieces et de systemes mecaniques.

Experience dans les environnements logiciels suivants:

- ROS/ROS2

- AirSim

- MATLAB/Simulink

Education Requirements

PhD in Natural Science or Engineering. A Master's degree in an engineering field may also be accepted.

Doctorat en sciences naturelles ou en ingenierie. Une maitrise dans un domaine de l'ingenierie peut egalement etre accepte.

Essential Skills

Knowledge of mechatronics systems and dynamics and control of RPAS;

Knowledge of UAV simulation software packages;

Knowledge of SLAM algorithms and Swarm robotics; and

Knowledge of conventional AI machine/deep learning models, e.g., VGG, YOLO series is an asset.

Connaissance des systemes mecatroniques, de la dynamique et du controle des systemes de navigation aerienne;

Connaissance des progiciels de simulation de drones;

Connaissance des algorithmes SLAM et de la robotique en essaim; et

Connaissance des modeles conventionnels d'intelligence artificielle et d'apprentissage en profondeur, par exemple les series VGG et YOLO, est un atout.

How to Apply

Click "Apply Now"