

Position title: ArcticNet IRIS Portal developer-programmer

Employer: ArcticNet inc.

Job objectives: [ArcticNet](#) is a Network of Centres of Excellence of Canada that brings together scientists and managers in the natural, human health and social sciences with their partners from Inuit organizations, northern communities, federal and provincial agencies and the private sector. Since its inception in 2004, the Network of Centres of Excellence ArcticNet has developed several mechanisms to mobilize scientific knowledge and northern expertise to inform decisions in the Arctic. These include Integrated Regional Impact Studies (IRIS), an iterative process that combines knowledge and models to anticipate the evolution of a region and propose adaptation strategies.

The IRIS Portal is a new project conducted by ArcticNet aiming to transform and expand the printed forms of present assessments into living electronic documents that will continuously connect end users to the experts. The IRIS portal will enable contributing experts to continuously edit and update their chapter of the assessments. State-of-the-art searching tools and dashboards will enable decision-makers and other end users to query the regional assessments, to trace sources in the scientific literature, and to connect with Canadian and international experts. Our goal is for a given assessment to become an updated document with a discussion forum and input from both the scientific and local experts that will be distributed electronically on the model, for example, of climate change newsletters. Ultimately, the ArcticNet IRIS portal will include three main parallel Modules: a Diffusion Module, an Editing Module and a Discussion Module. The IRIS portal will reduce to months rather than years the interval between editions of the assessments, making the documents more accessible and facilitating the percolation of science-based evidence into the decision-making process and generating more impacts and actions.

Duties and Responsibilities:

With the support of the ArcticNet coordination team, the developer will assess the best tools and help plan for the most efficient strategy to develop the IRIS Portal. The developer will construct a relational database structure or adapt an existing one that will allow for the integration of scientific contents (texts, figures,

tables, references, etc). In collaboration with national and international partners, the developer will conceive specific components of the interactive searchable e-document. The developer will also be responsible and will ensure the website security aspects. The developer will be engaged in a collaborating effort with international level developer teams and may also be asked to travel nationally and internationally for workshops and meetings.

Qualifications and Requirements:

- Bachelor's degree or equivalent experience
- Programming in JavaScript (intermediate or advanced)
- Database development (MySQL or PostgreSQL)
- Knowledge of Django and Django REST (Python) is an asset
- Knowledge of Node.js
- Autonomy and creativity are assets

Salary and Benefits:

- Salary from \$60,000 to \$85,000/year according to experience
- 12-month contract with possible extension
- Dynamic and stimulating working team
- Pan-Canadian and International partnership

Contact: The developer will work under the supervision of ArcticNet's integrated regional impact study (IRIS) lead coordinator. Please send your CV and portfolio to:

M. Mickaël Lemay
ArcticNet IRIS Lead Coordinator
Centre d'études nordiques (CEN)
418-656-2131 ext 11593
Mickael.Lemay@cen.ulaval.ca