



WEB APPLICATIONS DEVELOPER (CO-OP, 2 positions, Fall 2015 term)

The Canadian Cryospheric Information Network (CCIN, <https://www.ccin.ca>) at the University of Waterloo is seeking two **Web Applications Developers** for the Fall 2015 co-op term. The Polar Data Catalogue (PDC, <https://www.polardata.ca>) at CCIN archives and serves online Arctic and Antarctic data and metadata from Canadian and international polar research and monitoring programs such as the International Polar Year, the ArcticNet Network of Centres of Excellence, the Northern Contaminants Program, the Canadian High Arctic Research Station, and the Circumpolar Biodiversity Monitoring Programme. The PDC currently holds more than 2,200 metadata descriptions of datasets and 600,000 data files, including over 27,700 RADARSAT images of northern Canada and Antarctica. One of the primary initiatives of the PDC/CCIN is enhancing our map-based data search engine and the CCIN website with new interactive data visualization and social networking tools to most effectively share information about Canada's cold regions.

The **Web Application Developers** will be members of the PDC/CCIN web development team whose focus is to drive technology development related to cryospheric data management and web presentation. These positions will be responsible for working with the current PDC/CCIN technical staff (<https://ccin.ca/home/about/people>) to develop new web capabilities and improve online delivery of data and information about snow and ice in Canada's Arctic territories.

DUTIES

- Create new interfaces and interactive visualization tools to improve access to and discovery of cryospheric data;
- Update the scientific and graphical content of the CCIN website;
- Promote the PDC/CCIN and use of our data and tools through social media and other outreach and educational materials;
- Obtain feedback on the CCIN website and make updates to improve usability for our target users;
- Manage and test new products to ensure efficient and seamless operation and integration with other PDC and CCIN system components;
- Communicate status, issues, and risk to other staff; and
- Document your work, in code and in formal reports.

QUALIFICATIONS

- Current undergraduate student in Computer Science, Engineering, Geography, Math, or Science
- Strong understanding/knowledge/interest in HTML5, Javascript, Drupal, PHP, and/or Java programming
- Ability to learn quickly
- Must enjoy self development and minimal management
- Knowledge of CSS, IDL, OpenLayers, and other web and graphics technologies is a plus

These are full-time grant-funded positions located on the University of Waterloo campus in Waterloo, Ontario, Canada. The positions are available 31 August 2014 and continue to 31 December 2015. **Interested applicants should provide a cover letter and full resume.** Please direct applications or inquiries to: Julie Friddell, Associate Director, CCIN/PDC, julie.friddell@uwaterloo.ca, 519-888-4567 x32689.

The CCIN is an equal opportunity employer. We welcome all applicants who are hard-working and have a desire to thrive in a web development and data management environment. **Applications will be reviewed as they are received.** Thank you for your interest!