

JOB POSTING

Ocean Data Registry Developer

About Us

VITALITY is a multifaceted approach to addressing shared data challenges in the Canadian ocean sector. Through a collaboration of ten partners from across Canada and with funding from Canada's Ocean Supercluster, VITALITY will leverage the Canadian Integrated Ocean Observing System (CIOOS) to capitalize on ocean data and deliver definitive outcomes which i) advance ocean data management, analysis, and visualization capabilities and products, and ii) support the resolution of near-term labour, skill, and capacity by developing much-needed training programs.

The Canadian Integrated Ocean Observing System (CIOOS) is a nationally coordinated effort towards an open access, online platform for sharing high-quality data and information about the state of our oceans. This nationally coordinated effort unites the knowledge, expertise, and infrastructure of Canada's ocean observing community for the benefit of all Canadians (cioos.ca).

Job Summary

VITALITY is seeking a highly motivated and experienced individual to develop a data registry which supports the discoverability of sensitive or restricted data, to be developed incrementally based on the existing CIOOS software stack and utilizing the CIOOS ISO 19115-based metadata profile — with the philosophy of adopting where possible, adapting when necessary, and developing as a last resort.

A critical component of VITALITY is the development and implementation of a data registry to enable the handling of restricted data, empowering organizations with concerns around open data to participate without risking competitive advantage -- thus raising the profile of their work, helping to avoid duplication of effort, and increasing the potential for new partnerships. This position will work collaboratively with VITALITY staff and partners to identify where sharing is possible and facilitate it on a national scale.

This position is through VITALITY partner CIOOS Atlantic (cioosatlantic.ca), which provides a data management approach for oceanographic data from the Atlantic Seaboard, and is one of three regional associations within CIOOS.

Salary: \$50,000-\$70,000, depending on experience

Benefits: [Dalhousie Grant-Paid Employees Benefits Package](#)

Start Date: 21 January 2021 (negotiable), 20 month term position

Given current implementation of physical distancing measures, the successful applicant must have the ability to work from home.

Deadline for applications: 11 January 2021

Submit Resume and Cover Letter: <http://dal.peopleadmin.ca/postings/5098>

While we greatly appreciate your interest in working with us, only those candidates shortlisted for an interview will be contacted. Best of luck!

Qualifications and Skills:

- Minimum Bachelor's degree in Computer Science or related field
- Ability to assess and understand the data needs of various organizations
- Excellent communication skills and ability to work as part of a team and as an individual
- Knowledge of best practices for implementation of the FAIR data principles
- Experience with web (HTML, Javascript, etc.) and scripting languages (Python, etc.)
- Detail-oriented with strong problem-solving, analytical and critical thinking skills
- Ability to adapt to changing situations and requirements
- Cross-cultural sensitivity and the ability to work with people from diverse backgrounds
- Experience with CKAN and ERDDAP an asset
- Understanding of ocean data management an asset
- Familiarity with ISO standards (particularly ISO-19115:2014) an asset

Key Responsibilities:

- Assess the data registry needs of industry and Indigenous organizations
- Build an initial CKAN and ERDDAP-based prototype of the data registry
- Evaluate and implement i) native and extensible CKAN and ERDDAP capabilities and ii) additional software as necessary to meet identified requirements for the data registry
- Employ agile software development methodology to develop and implement a fully-realized data registry -- adopting where possible, adapting when necessary, and developing as a last resort
- Obtain user feedback to inform refinements and improvements of the data registry
- Collaborate with VITALITY Ocean Data Trust Developer to define a data trust framework
- Coordinate with regional and national VITALITY partners to provide advice or assistance for ocean data management as able and needed
- Other data registry-related responsibilities which may arise as the project progresses