

JOB POSTING

Ocean Data Trust 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 advance the discoverability of sensitive or restricted data by investigating and documenting future pathways for implementation of a data trust. The trust is to be based on the VITALITY data registry, which is incremental to the existing CIOOS software stack and is currently being developed. This role will primarily involve analysis and recommendations for a solution architecture, with less focus on the design and implementation of a software solution.

A critical component of VITALITY is defining a framework for future implementation of a data trust, a method for providing independent stewardship of data that is generated from private, public, or third-party sectors. This position will work collaboratively with VITALITY staff and partners to identify where data 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/5096>

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
- Knowledge of network and computer security preferred
- 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 and data trust needs of industry and Indigenous organizations
- Collaborate with the VITALITY Ocean Data Registry Developer to assess suitability of potential registry software, including CKAN and ERDDAP, for future use in a data trust.
- Create a report which outlines pathways for future implementation of a data trust as an extension of the VITALITY registry, including multiple scenarios and service levels
- Coordinate with regional and national VITALITY partners to provide advice or assistance for ocean data management as able and needed
- Other data registry or data trust-related responsibilities which may arise as the project progresses; this may include assistance with data registry development