

**Job Title: Research Associate, World Data Systems**

**Salary: \$60,000/year**

**Hours: 35 hours per week; Monday-Friday 8:30am-4:30pm/remotely  
Ocean Networks Canada, University of Victoria**

Ocean Networks Canada (ONC) is a world-leading organization supporting ocean discovery and technological innovation. ONC is a not-for-profit society that operates and manages innovative cabled observatories on behalf of the University of Victoria that supply continuous power and Internet connectivity to various scientific instruments located in coastal, deep-ocean, and Arctic environments. ONC is also a member of the World Data System (WDS), a global consortium of data distribution centers under the auspices of the International Science Council. ONC is the physical host, along with the Canadian Astronomy Data Center and the University of Waterloo's Polar Data Catalogue, of the WDS International Technology Office (ITO). The ITO supports the contribution of WDS members to the global research data infrastructure and coordinates the development and integration of components of global research data infrastructure with other operational entities that are invested in research data management. The ITO seeks to empower and enable the WDS community to accomplish complex tasks when dealing with data volumes of increasing size and complexity.

The ITO is seeking a full time staff member that will engage with WDS members and other partners as the data management community works to make high quality data findable, accessible, interoperable and reusable (FAIR). Specifically, the staff member will be responsible for promoting and facilitating the implementation of Schema.org mark-up in research metadata. This work will both contribute to, and extend the outputs from the Research Data Alliance Working Group on Research Metadata Schemas. The need for this work is rooted in the increased interest by Data managers for using web structures for a data syndication. This data pathway relies on using semantic web technologies to enrich metadata with controlled vocabularies, and then creating landing pages for those metadata that are subsequently indexed by search engines, in particular indexing by Google Dataset Search.

The researcher will examine questions such as: Should data managers abandon the traditional harvesting or continue these services and augment them with semantic technologies? When is it appropriate for the RDM community to use semantic technologies with respect to sensitive data? Schema.org is lightweight and lacks any meaningful detail about the datasets it describes. Is this pathway useful for the domain rich communities and scientists who will derive meaning and ultimately policy from the raw data, or should it be seen as an activity that supports non-scientists? If so, should it be a priority for data managers? Should managers adopt Schema.org, in conjunction with other vocabularies, and if so how?

This position requires a master's degree in Information Science, Library Science, Digital Humanities, Computer Science, Physics & Astronomy, Engineering, Mathematics & Statistics or Earth and Ocean Sciences or related field, plus minimum 3 years of related experience. An equivalent combination of education and experience may be considered.



**OCEAN  
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The candidate should have demonstrated experience in one or more of the following areas:

- Research data management, web content management systems, developing metadata content, data repository management, data publishing
- web services for scientific data discovery and delivery, data curation and data interoperability
- Demonstrated understanding of metadata schemas, controlled vocabularies, ontologies, and/or data syndication
- Public speaking, specifically giving webinars and tutorials and developing content and resources on web technologies or data infrastructure and management processes

In addition, this position requires:

- Excellent analytical, critical thinking and problem solving skills
- Superior communication skills, both written and verbal; good interpersonal skills, especially when dealing with international clients; the ability to listen and ask relevant questions about what data managers are experiencing
- Ability to build and maintain productive working relationships with all stakeholders
- Ability to work independently and collaboratively in a team environment
- Proven track record achieving project goals on time and produce deliverables of a high quality
- Demonstrated organizational skills
- Experience with APIs, R and/or Python while not required, would be an asset

\*This is a 12-month Term appointment and the successful candidate will be eligible to work remotely. The candidate must either be a Canadian or be in possession of a valid Canadian work permit.\*

Application Deadline: August 5, 2020

Location: Queenswood Campus, 2474 Arbutus Road, Victoria BC V8N 1V8/remotely

To Apply: Send a CV and cover letter to: [ncadmin@uvic.ca](mailto:ncadmin@uvic.ca)