Data Analyst: Job Description

POSITION SUMMARY:
The Ocean Tracking Network (OTN) is a global marine research and technology platform, headquartered at Dalhousie University in Halifax, Nova Scotia, Canada, tasked with bringing together and empowering an international community of telemetry users (http://oceantrackingnetwork.org). OTN and its partners track and monitor keystone, commercially important, and endangered species and how they move within the global ocean in the face of changing ocean conditions. This knowledge is useful at the Canadian federal and provincial level, as well as internationally, to guide fisheries policy development and management, and the sustainable use of the ocean.

This position reports to the Database Manager, and when needed, the Director of Data Operations. As part of the OTN Data Centre, the Data Analyst is responsible for the integrity of the OTN database and creation and maintenance of its associated processes.

OTN is a dynamic work environment and as such responsibilities may vary with time. The Data Analyst is primarily based in Halifax, but occasional travel may be required, as is occasional evening and weekend hours due to the international scope of the job. It is imperative that the candidate work well under pressure and in a team environment and is able to self-motivate.

KEY RESPONSIBILITIES:
1. Provide input on the design and implementation of OTN database structure, for example:
   o Design, implement, and extend OTN's database to accommodate new advances in telemetry and other complementary data products
2. Provide input on improvements to OTN database processes, for example:
   o Design, implement, and maintain data loading processes for the OTN data system
   o Perform data processing, loading and quality control
   o Resolve technical issues with regards to application code and data quality, data input and data export procedures
3. Review and refine OTN database content, for example:
   o Design, develop and maintain OTN data quality procedures
   o Assure accuracy, integrity and security of data
4. Design, generate, and automate the creation of OTN database products, for example:
   o Design, implement, and maintain end-product development from loaded data
   o Assist with training workshops for parties working with the OTN data system

QUALIFICATIONS:
The ideal candidate will possess the following assets:

OCEAN TRACKING NETWORK
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DALHOUSIE UNIVERSITY

- Education:
    - IT certification in data systems / Bachelor's degree in CS, Informatics, or similar programme preferred
    - Experience in biology or biological data systems an asset
- Specialized knowledge:
    - Enterprise relational data systems (PostgreSQL an asset)
    - Linux administration and shell scripting
    - Python or similar high-level programming language, especially for data manipulation, interaction with RDBs
    - Experience with geospatial data an asset
- Skills:
    - Database design and optimization of data systems
    - Quality control of human-generated data
    - Data analysis and visualization techniques
- Abilities:
    - Work in a deadline-driven and high-volume environment
    - Attention to detail
    - Self-directed
    - Able to work effectively individually or as part of a team
    - Able to travel internationally two or more times per year
- Experience:
    - 2 years' experience or greater in IT, especially in a data management or data archival focused roles

This is a one-year grant paid position (likely to be renewed until 2023) and is funded through Dalhousie University.

Position: 37.5 hrs/week
Pay Scale: 50-60k / year

Deadline for application: February 28, 2020.
Interview week: March 2 – 6, 2020
Expected Start Date: March 16, 2020

Interested parties should forward a cover letter, current resume and contact information of 2-3 references to:

Jonathan.Pye@dal.ca

Applications will be reviewed as they are received. We thank all applicants, however, only candidates selected for an interview will be contacted.

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