Oceanographic Data Analyst – Co-op

Organization: Rockland Scientific International Inc.   **Sector:** Ocean Science & Technology

Address: 520 Dupplin Road, Victoria, B.C.,
Canada, V8Z 1C1

Position Title: Oceanographic Data Analyst   **Department:** Research & Development
Reports To: R&D team   **Location:** Victoria, BC / WFH
Position Type: Full-time Co-Op placement

Company Overview

Rockland Scientific Inc. is a growing, privately held company, with headquarters in Victoria, British Columbia, Canada. Our core purpose is to enable scientific progress by creating novel & technologically superior oceanographic measurement solutions that help scientists understand ocean mixing & climate change. Our main customer base are researchers within the fields of oceanography and limnology, focusing on climate research, deep-sea research, and coastal zone dynamics. Rockland is the foremost manufacturer of marine turbulence measurement systems for oceans, rivers, lakes, and laboratories and we pride ourselves in being the experts in our field. Rockland solutions enable our customers to be successful in their data collection goals.

At Rockland Scientific, we welcome all ages, races, gender identities, sexual orientations, cultures, religions, and beliefs. Our commitment lies in appreciating the unique skills and perspectives that each person brings to our team. We are dedicated to fostering a secure, supportive, and inclusive environment where every employee can thrive.

Job Summary

Rockland Scientific is offering an 8-month Co-Op placement as part of the PROGIDY program for an oceanographic data analyst. The oceanographic data analyst is responsible for the development of analysis techniques of oceanographic data including but not limited to, conductivity, temperature, dissolved oxygen, chlorophyll, turbidity and microstructure scalar and shear velocities.

The ideal candidate is a self-motivated individual, passionate about oceanography, and proficient working independently as well as in a team. Demonstrated analytical thinking and programming abilities (Matlab, Python, …) are essential for this role.

Position Qualifications & Requirements

- Demonstrated interest and experience working with observational datasets, preferably in environmental science, oceanography, marine biology or other relevant fields.
- Demonstrated solid background and proficiency in time series processing, Fourier analysis, wavelet analysis
- Proficiency in programming environments like Matlab, Python, Java
- Experience with data management, visualization and processing
- Strong technical writing and documentation skills

Duties and Responsibilities

The oceanographic data analyst will be contributing to Rockland's efforts to process and visualize oceanographic data, specifically as ancillary data for microstructure turbulence. The Co-Op student will do this as part of ongoing projects of Rockland's R&D team.

- Familiarizing oneself with existing Rockland software tools
- Developing methods to analyze different types of ancillary data including but not limited to conductivity, salinity, temperature, dissolved oxygen, chlorophyll and turbidity
- Developing visualization frameworks to facilitate data interpretation and cross analysis
- Assisting with the extracting of host platforms (profiling floats and ocean gliders) ancillary data
- Contributing to the development of methods to leverage oceanographic data for microstructure turbulence processing and visualization

Working conditions

- On-site position with the possibility of part-time working from home
- 40 hours per week
- Independent work with supervision from team members

What we offer

- Full-time employment for 8-months
- Salary is between $22 to $25 per hour, based on experience and skill level.
- Opportunities to take part in job-related training and development
- Join a diverse team making a difference in the scientific field to understand climate change.
- Free accommodation for out-of-town visits at the guest house ("The Haus") located on the Rockland campus.

Apply

If you are interested in applying, please send your resume and cover letter to the email: hr@rocklandscientific.com using "Prodigy Student CO-OP" as the subject line.