

Ocean Instrumentation Professional
ArcticNet Inc.

ArcticNet is a Network of Centres of Excellence of Canada that brings together scientists and managers in the natural, human health and social sciences with their partners in Inuit organizations, northern communities, government and industry to study the impacts and opportunities of climate change and globalization in the Arctic. Over 140 ArcticNet researchers and 1000 graduate students, post-doctoral fellows, research associates, technicians and specialists from 30 Canadian universities and numerous federal, provincial and regional departments collaborate on 38 research projects with more than 150 Canadian and foreign partner organizations.

The research icebreaker CCGS *Amundsen* is ArcticNet's primary research platform for sampling the coastal Canadian Arctic. With sophisticated oceanographic equipment, the *Amundsen* conducts state-of-the-art research on sea ice dynamics, water chemistry and physics, optics, bathymetry, geology, biology and atmosphere-ocean exchange.

JOB SUMMARY:

Based on the science program developed by ArcticNet's researchers, the Ocean Instrumentation Professional will work under the supervision of the Marine Research Manager. The Ocean Instrumentation Professional's tasks are as follows:

Development, installation, operation and maintenance of the CCGS *Amundsen*'s oceanographic instruments:

- Working in a team setting to develop, install, repair, calibrate and maintain various scientific instruments and systems before, during and after the annual CCGS *Amundsen* expedition;
- Updating of the equipment inventory (keeping track of new equipment, maintenance and repair requirements).

At-Sea Operations:

- Mobilization and demobilization of oceanographic equipment for annual at-sea expedition;
- Participation in annual at-sea scientific expeditions (2 x 6 weeks minimum) to conduct the following tasks:
 - Operation of the CTD-Rosette system;
 - Operation, maintenance and repair of the scientific instruments and systems necessary for the annual CCGS *Amundsen* expedition to the Canadian Arctic;
- Training of internship students for installing, calibrating and maintaining various scientific instruments.

Data Processing and Reporting:

- With ArcticNet researchers, ensuring that the sampling campaign and protocols as well as data processing and outputs meet scientific requirements;
- Preliminary data processing and quality control for oceanographic datasets;
- Writing of operational reports for annual expeditions detailing data sampling procedures, equipment problems encountered and troubleshooting techniques applied, as well as description of data outputs.

ESSENTIAL QUALIFICATIONS:

- Degree in ocean instrumentation or equivalent (e.g., ocean technology, oceanography, marine sciences, engineering related technologies);
- Experience in maintaining, repairing, operating and installing oceanographic equipment;
- Experience operating a CTD-Rosette system at sea;
- Experience in the recovery, logging, and preliminary analysis of oceanographic data, or equivalent experience;
- Excellent competencies in computer programming and interfacing with electronic equipment;
- Competency in electronics;
- Capacity to spend 6-12 weeks per year at sea in the Canadian Arctic;
- Ability to work autonomously as well as in a dynamic team environment;
- Willingness to live and work in Quebec City.

ASSET QUALIFICATIONS:

- Experience in the maintenance and repair of simple mechanical systems. Skilled in the use of hand tools, power tools and electronic test equipment (trade skills).
- Good working knowledge of mechanics and hydraulics;
- Good working ability in English (oral & written);
- Willingness to learn basic French.

Candidates must clearly demonstrate IN THEIR COVER LETTER how they meet the essential and asset qualifications.

WORKPLACE:

ArcticNet is based out of Université Laval in Quebec City, Canada. Despite working in a French-speaking environment, many tasks related to this job will be carried out in English. English verbal and written communication skills will be considered an asset.

WORKING CONDITIONS:

Salary to be determined based on experience (\$45,000 to \$65,000)
Position to be filled as soon as a qualified candidate is found

Submit your cover letter and CV before 15 February 2015 to:

Réal Choquette
Administrative Director
ArcticNet Inc.
Pavillon Alexandre-Vachon, room 4081
1045, avenue de la Médecine, Université Laval
Québec (Québec) G1V 0A6
real.choquette@arcticnet.ulaval.ca

In accordance with stipulated requirements regarding immigration in Canada, priority will be given to Canadian citizens as well as permanent residents of Canada.