



NEPTUNE Canada

UNIVERSITY OF VICTORIA

Job Title: Instrument Scientist (IS)

NEPTUNE Canada is seeking an Instrument Scientist guide the Engineering group as it continues integrating and maintaining new instruments to the network. The NEPTUNE Canada cabled ocean network forms a major part of the Ocean Networks Canada Observatory. Over the next two decades, NEPTUNE Canada will reveal a wealth of ocean environmental processes and imagery through the many arrays of scientific instruments deployed between 17m and 2660m water-depths in the NE Pacific Ocean. To ensure the scientific functioning and maintenance of these vital instrument arrays, smooth logistics is crucial.

The University of Victoria offers a competitive salary package including significant benefits ranging from extended health benefits, a pension plan, 35-hour work week and generous paid leave as well as a motivating work location in one of the most beautiful places in Canada.

Details of the NEPTUNE project can be found on our website: <http://www.neptunecanada.ca/>. A complete job description is available at <https://uhire.uvic.ca>.

Duties and Responsibilities:

The Instrument Scientist will be primarily responsible for instruments testing and calibration prior to integration with the seafloor network. He or She will be the primary contact with scientists to organize deployments and instrument maintenance. He or She will have extensive experience in marine deployed instrument, and the execution of remote marine deployments. His/her tasks will include:

- Serve as a liaison to the scientific community in coordination with the NC Science group and propose solutions to facilitate integration of instruments into the network based on the type, purpose and science of each instrument (seismic, acoustic, biological, chemical, water column properties, cameras etc.)
- Be responsible for the planning and implementation of the testing and qualification of scientific instruments to be integrated to the NEPTUNE Canada network
- Participate in the organization and may take the lead of the servicing and installation cruises that are typically bi-annual and may be up to 4 weeks in duration
- Participate in documentation revisions and implementation of quality protocols and processes; in particular, drive the definition and maintenance of the NEPTUNE Canada instrument requirements document in coordination with the Science, Engineering and Data Management groups
- Guide the design and manufacture of equipment, platforms and structures based on NEPTUNE Canada's equipment requirements
- Communicate with contractors and equipment providers as required with respect to the calibration, servicing and replacement of scientific and related equipment
- Manage the deployed instrument health status, in particular follow up on failure reports provided by operation staff
- Liaise with the Data Management team on all relevant aspects of new instrumentation, such as communication protocol, data access protocol, specific software requirements, etc. Provide the operation

staff with information on the various alert trigger for each instrument. Ensure proper instrument documentation is available to all parties

- Collaborate with the NC Science team on data quality issues

Qualifications, Skills & Experience

Essential qualifications include shipboard experience in deployment of marine equipment, excellent problem solving and interpersonal skills as well as a strong technical background in relevant technologies. Marine safety training and First Aid would be an asset.

Specifics:

- a demonstrated interest in, and knowledge of, the Ocean Sciences
- a proven experience with operations and basic data quality assessment of instrument (seismic, acoustic, oceanographic, chemical)
- experience with oceanographic instrumentation and equipment including field support at sea
- strong problem-solving abilities
- strong interpersonal, verbal, written and computational communication skills are a key requirement
- ability to manage multiple tasks in a fast-paced, deadline-driven environment
- ability to work collegially within a team as well as independently
- a current Standard First Aid or Marine Basic First Aid certificate is desirable

Educational Requirements:

The successful candidate will have a PhD in Physical Oceanography, physics or related field and related experience of 15-20 years or an equivalent combination of education and experience.

To Apply:

Applications must be submitted on the University of Victoria Human Resources recruitment website: <https://uhire.uvic.ca>. Applications must be received by 4:30pm, January 4th, 2012.

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Job Title: Marine Equipment Technologist

NEPTUNE Canada is seeking a Marine Equipment Technologist who will be primarily responsible for preparing instruments for integration with the seafloor network (incl. testing instruments, wiring of cables, specifying brackets/mounting arrangements, etc). S/He will participate in the instrument deployment and retrieval planning in consultation with other NEPTUNE Canada staff, Scientists, ship staff and Remotely Operated Vehicle (ROV) staff. S/He will have extensive experience in the technical support of marine deployed equipment, and the execution of remote marine deployments.

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Details of the NEPTUNE project can be found on our website: <http://www.neptunecanada.ca/>. A complete job description is available at <https://uhire.uvic.ca>.

Duties and Responsibilities:

- Be responsible for the testing and qualification of scientific instruments and equipment to be integrated to the NEPTUNE Canada network
- Repair and maintain instruments and related equipment
- Repair and maintain testing equipment
- Provide technical support at sea during servicing and installation cruises that are typically bi-annual and may be up to 4 weeks in duration
- Record and document test results and maintenance activities within the existing database and document sharing structures
- Participate in documentation revisions and implementation of quality protocols and processes
- Contribute to the design and manufacture of equipment, platforms and structures as required
- Assist the Installation Support Technician with shipping/receiving and inventory duties
- Communicate with contractors and equipment providers as required with respect to the calibration, servicing and replacement of scientific and related equipment
- Consult with NC staff, scientists, and ship and ROV staff regarding instrument requirements, testing and installation
- Interact with scientists and their technicians to confirm technical specifications and testing and installation arrangements for scientific instrument deployment
- Support Data Management and Archive System (DMAS) staff in charge of software development, instrument communications and testing by setting up and connecting instruments on an agreed upon schedule

Qualifications, Skills & Experience

The successful candidate will have an electrical/electronic education at a degree or technologist level and related experience of 5-10 years or an equivalent combination of education and experience. Essential qualifications include shipboard experience in deployment of marine equipment, excellent problem solving and interpersonal skills as well as a strong technical background in relevant technologies. Marine safety training and Standard First Aid would be an asset.

Specific qualifications include:

- a demonstrated interest in, and knowledge of, the Ocean Sciences
- a degree or a technical certificate in electronics/electrical engineering
- experience with oceanographic instrumentation and equipment including field support at sea
- experience with PC-based command, control and data acquisition
- thorough command of serial communications protocols (EIA 232, 422, 485)
- working knowledge of Ethernet hardware, TCP/IP and UDP
- facility with systems-level hardware integration
- experience with corrosion and biofouling issues
- experience with microprocessor-based control systems
- strong problem-solving abilities
- strong interpersonal, verbal, written and computational communication skills are a key requirement
- ability to manage multiple tasks in a fast-paced, deadline-driven environment

- ability to work collegially within a team as well as independently
- experience working with fibre (e.g. testing, splicing...) would be an asset
- a current Standard First Aid or Marine Basic First Aid certificate is desirable
- a Transport Canada approved marine safety course such as SCTW Basic Safety would be an asset

To Apply:

Applications must be submitted on the University of Victoria Human Resources recruitment website: <https://uhire.uvic.ca>. Applications must be received by 4:30pm, January 4th, 2012.