Are you ready to help shape the future of tidal energy? FORCE is at the forefront of an exciting new chapter in Canada's clean energy transition. With a world-leading tidal technology on the horizon, new actions from the federal Task Force for Sustainable Tidal Energy, and upcoming opportunities for new projects at our test site, this is a pivotal moment to join our team.

As Canada's lead research facility for tidal stream technology, FORCE is dedicated to understanding how this renewable resource can play a role in our energy future. Located in the Minas Passage of the Bay of Fundy—home to the world's highest tides—our test site provides essential offshore and onshore electrical infrastructure to connect devices to the power grid and our team works with partners from around the region and around the world to conduct innovative applied research and monitoring in relation to potential environmental effects.

FORCE is a private, not-for-profit company, operated by a dedicated staff, governed by a board of directors, and guided by input from an independent Environmental Monitoring Advisory Committee and a Community Liaison Committee.

THE ROLE

The **Field Systems Technician** will work under the guidance of the Technical Director to support the development and operation of the Ocean Sensors Innovation Platforms (OSIP) project. This work will help test and assess environmental monitoring instruments for tidal energy devices. The role offers hands-on experience in the cutting-edge field of tidal energy and environmental monitoring, develops technical skills in marine operations, sensor integration and data communication, and the opportunity to contribute to advancing clean energy solutions in Canada. Success in the role relies on strong collaboration with a team of experts to support ongoing research and monitoring projects.

Work Location
Based in Dartmouth, NS with some overnight travel to Parrsboro, NS for field activities, and occasional travel across Nova Scotia.

KEY RESPONSIBILITIES

Equipment Maintenance/Operation
Assist with OSIP project electrical and mechanical design, maintenance, and operation.
Support in the design, installation, calibration, operation, troubleshooting, and maintenance of environmental monitoring instruments.
Support the implementation and maintenance of FORCE's data acquisition, communication, and storage protocols.

Environmental Monitoring
Assist with delivery of FORCE's ongoing Environmental Effects Monitoring Program (EEMP).

Marine Operations
Support vessel-based activities including line handling and deck operations.
Ensure the safety of marine operations by consistently following standard operating procedures and safety policies.

Documentation and Reporting
Compile and document results from monitoring activities including lessons learned.
Assist in creating reports on monitoring for internal and external stakeholders.

QUALIFICATIONS & COMPETENCIES

Education	• Diploma in a relevant field (e.g., Electrical Engineering Technology, Electromechanical technician, Mechanical Engineering Technology, Ocean Technology)
Required Experience	• 1-3 years of relevant employment experience • Understanding of sensor integration and data communication protocols (serial, ethernet, fibre optics) • Understanding of electrical systems used in marine environments, including power management and wiring • Basic understanding of wireless communication systems • Experience with installing, troubleshooting, and maintaining electronic systems • Basic understanding of environmental monitoring tools and data collection and management
Desirable Experience	• Experience working on research or commercial vessels in a marine environment • Basic seamanship skills, including line handling, anchoring, and deck operations • Previous experience deploying, calibrating, and maintaining instrumentation • Familiarity with marine operations, vessel equipment and safety protocols
Technical Skills	• Electrical/mechanical skills for equipment assembly and maintenance • Computer skills include MS Office Suite, Adobe Suite, Office 365, and any other relevant computer software packages • Experience with CAD software (AutoCAD, SolidWorks) for designing electrical/mechanical components • Familiarity with data acquisition systems used in oceanographic research
General	• Team player with excellent communication skills • Sense of curiosity with aptitude to learn and take initiative • Interest in fieldwork activities (travel covered by FORCE) • Ability to work under pressure; detail oriented; organized • Excellent analytical, logical thinking, and problem-solving skills
Certifications/Other	• Small Domestic Vessel Basic Safety (SDVBS) • Small Vessel Operator Proficiency (SVOP) • Restricted Radio Operator (ROC-Maritime) • NS driver's license

TO APPLY

If you're ready to make an impact, we ask you provide your most recent CV with a compelling covering letter, highlighting your fit and experience for this role to: **recruit@fundyforce.ca** for an initial review.

We embrace inclusion and diversity and welcome applicants to self-identify. Please feel free to indicate if you belong to or self-identify as a member of an underrepresented group, including people who are Indigenous, racially visible, living with a disability, women, or people of diverse sexual orientations and gender identities, including 2SLGBTQI+ communities.

All applications will be reviewed. Only those selected for an interview will be contacted. We appreciate your interest in joining FORCE and look forward to learning about you.

Application Timeline
Application deadline May 30, 2025.

Term of Employment
Full-Time

Compensation
$40,000 - $55,000