



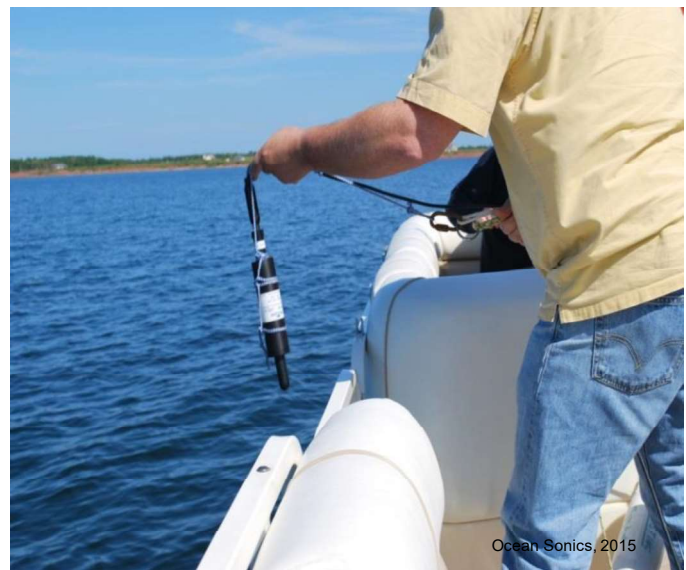
Industrial Instrumentation Technicians and Mechanics

Median Yearly Income (2010): \$56, 861

Industrial instrumentation technicians and mechanics repair, maintain, calibrate, adjust, and install industrial measuring and controlling instrumentation.

WHAT YOU DO

In the oceans technology sector, instrumentation technicians and mechanics interface instrumentation to a wide variety of platforms including ships, moorings, and underwater vehicles. In many organizations, these technicians are responsible for all aspects of data collection and management, from the deployment of instruments into the marine environment to the delivery of documented data to the end user.



Industrial instrumentation technicians and mechanics perform some or all of the following duties:

- ❖ Natural interest in technology and discovering how things work;
 - ❖ Good mechanical aptitude, attention to detail, and patience are necessary;
 - ❖ Able to work under pressure and collaborate and cooperate with others; and
 - ❖ Effective oral and written communication skills are also important.
- ❖ Consult manufacturer's manuals, circuit diagrams and blueprints to determine tests and maintenance procedures for instruments used for measuring and controlling flow, level, pressure, temperature, and other variables;
 - ❖ Inspect and test operation of instruments and systems to diagnose faults; and
 - ❖ Repair and adjust system components, such as sensors and transmitters.

Industrial Instrument Technicians and Mechanics



CAREER PATHWAY

OVERVIEW

- ❖ **Work Type:** Full-time
- ❖ **Area Most Likely to Work:** Cape Breton and Halifax
- ❖ **Most Employees Have:** Non-university certificate or diploma
- ❖ **Certification:** Interprovincial Standards Red Seal Program
- ❖ **Work Prospects:** *Fair

Co-op
Options and Opportunities
Science Streams
Oceans 11

Opportunities available for high school students to gain hands-on and/or practical experience that could help them connect in this career.

Grade 12 diploma or equivalent

Post-Secondary
Educational Programs

2 years: Tuition fees
approx. \$3, 130/year

Nova Scotia Community
College: Industrial
Instrumentation

Not For Profits
Techsploration (techsploration.ca/
Skills Canada (skillscanada.com)

Interprovincial Standards Red Seal Program:
Allows qualified tradespersons to practice the trade in any province or territory in Canada where the trade is designated without having to write further examinations.

This program is a first step towards Journeyman Certification in the Instrumentation and Control Technician trade.

Examples of Nova Scotia companies and organizations that offer this career

- GeoSpectrum Technologies Inc.
- L-3 Communications Electronics Systems Inc.
- MetOcean Data Systems Ltd.
- OceanSonics
- Vemco (Amirix Systems Inc.)

References and Resource Links

- *The employment outlook over the next few years for this occupational group is "fair", which indicates the chances of a qualified individual finding work is around average
- Careers Nova Scotia (<http://careers.novascotia.ca/>)
- Create your career plan (careeringear.nsc.ca)
- Red Seal Program (<http://www.red-seal.ca/>); Nova Scotia Apprenticeship Agency (www.nsapprenticeship.ca/); TechNova (<http://www.technova.ca/>)
- 2243 national occupation classification (<http://www5.hrsdc.gc.ca/NOC/English/NOC/2011/QuickSearch.aspx?val65=2243>)