



Machinist

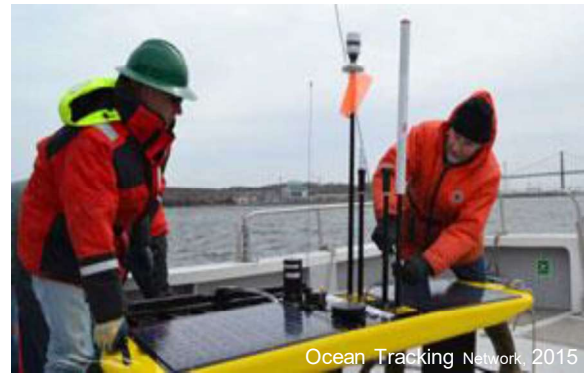
Median Yearly Income (2010): \$50, 692

This unit group is for all machinist and machining and tooling inspectors: Machinists set up and operate a variety of machine tools to cut or grind metal, plastic or other materials to make or modify parts or products with precise dimensions.

WHAT YOU DO

Machinists make very unique instruments and components with specific requirements for use in industrial machinery or products.

In the oceans technology sector, machinists design and manufacture ocean technology instruments for a variety of initiatives such as remote sensing, data loggers for aquatic life migratory patterns, underwater sonar and detection systems, seabed imaging, offshore exploration for oil and gas, and subsea exploration.



WHAT YOU NEED

- ❖ Keen interest in machines, precision techniques, and processes;
 - ❖ Good hand-eye coordination and agility are needed;
 - ❖ You should be comfortable working with tools and able to read mechanical drawings;
 - ❖ Possess the ability to work systematically, think analytically, and perform basic mathematical calculations; and
 - ❖ Be comfortable using computer equipment.
- ❖ Read and interpret engineering drawings, blueprints, charts and tables or study sample parts to determine machining operation to be performed;
 - ❖ Compute dimensions and tolerances and measures, and lay out work pieces;
 - ❖ Set up, operate and maintain a variety of machine tools including tools to perform precision, non-repetitive machining operations such as sawing, turning, milling, boring, drilling, precision grinding and other operations; and
 - ❖ Fit and assemble machined metal parts and subassemblies using hand and power tools.

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U.S Navy 2011

CAREER PATHWAY

OVERVIEW

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

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

Nova Scotia Community
College: Machining

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
**Journeyperson Certification in the
Machinist trade.**

Examples of Nova Scotia companies and organizations that offer this career

- Advanced Precision Ltd.
- Alloy Concepts Inc.
- Allendale Electronics Limited.
- Hawboldt Industries Ltd.

References and Resource Links

- *The employment outlook over the next few years for this occupational group is "good", which indicates the chances of a qualified individual finding work is above 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>)