

# Mechanical Engineering Technicians and Technologists

Median Yearly Income (2010): \$60, 835

Mechanical engineering technologists and technicians provide technical support and services or may work independently in mechanical engineering fields such as the design, development, maintenance and testing of machines, manufacturing plants and equipment.

## WHAT YOU DO

## In the oceans technology sector,

mechanical engineering technicians and technologists play a key role in assisting engineers in designing and developing innovative machinery and robotics for applications such as oceanography, meteorology, defence, search and rescue, fishing, marine transportation and offshore energy exploration and development.



# WHAT YOU NEED

- Enjoy technical work and mathematics, and have an interest in science;
- Possess a high degree of manual dexterity and mechanical ability;
- Able to be precise, analytical, and work alone or as part of a team;
- Good oral and written communication skills are important;
- Familiarity with computers is also required; and
- Physical stamina may be required for field work.



# Mechanical engineering technicians and technologists perform some or all of the following duties:

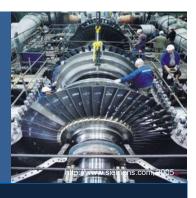
- Prepare and interpret conventional and computer-assisted design (CAD) engineering designs, drawings, and specifications for machines and components;
- Prepare cost and material estimates, project schedules and reports;
- Conduct tests and analyses of machines, components and materials to determine their performance, strength, response to stress and other characteristics; and
- Design moulds, tools, dies, jigs and fixtures for use in manufacturing processes.







# Mechanical Engineering Technicians and Technologists



# **CAREER PATHWAY**

Grade 12 diploma or equivalent

Post-Secondary

Educational Programs

### **OVERVIEW**

- Work Type: Full-time and self-employed
- Area Most Likely to Work: Halifax and Cape Breton
- Most Employees Have: Nonuniversity certificate/diploma
- Certification: TechNova Right to title
- ❖ Work Prospects: \*Fair

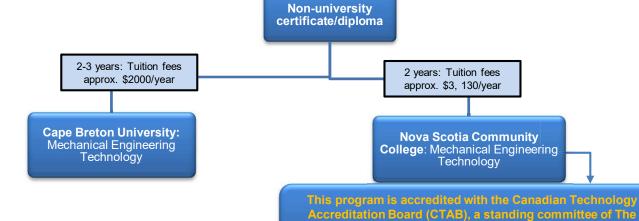
Options and Opportunities
Science Streams
Oceans 11

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



### **Not For Profits**

Techsploration (techsploration.ca/)
Skills Canada (skillscanada.com)



Examples of Nova Scotia companies and organizations that offer this career

- ➤ Grantec Engineering Consultants
- ➤ Hawboldt Industries Inc.
- ➤ JD Irving Shipbuilding
- Sperry Marine Canada

# NSCC: Oceans Technology Program

Canadian Council of Technicians and Technologists (CCTT).

Graduates may be eligible for membership with TechNova.

Advanced one year diploma for students with a Bachelor of Science or Engineering or an Engineering Diploma to further enhance skills in the oceans technology sector.

### **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.nscc.ca)
- >TechNova (http://www.technova.ca/)
- >2232 national occupation classification (http://www5.hrsdc.gc.ca/NOC/English/NOC/2011/QuickSearch.aspx?val65=2232)