

Industrial and Manufacturing Engineering

Median Yearly Income (2010): \$78,246

Industrial and manufacturing engineers conduct studies, and develop and supervise programs to achieve the best use of equipment, human resources, technology, materials and procedures to enhance efficiency and productivity.

WHAT YOU DO

Industrial and manufacturing engineers conduct studies, and develop and supervise programs to achieve the best use of equipment, human resources, technology, materials and procedures to enhance efficiency and productivity in all aspects of the oceans technology sector from offshore and coastal energy to shipbuilding and marine transportation.



WHAT YOU NEED

- Keen interest in organizing, managing, and integrating automation in the workplace;
- ❖ Able to think analytically and logically;
- Able to communicate and work well with others, as engineers often work in teams;
- Enjoy problem-solving; and
- Possess strong math skills.



Industrial and manufacturing engineers perform some or all of the following duties:

- Plan and design plant layouts and facilities:
- Study new machinery and facilities and recommend or select efficient combinations;
- Conduct studies and implement programs to determine optimum inventory levels for production and to allow optimum utilization of machinery, materials and resources; and
- ❖ Analyze costs of production.



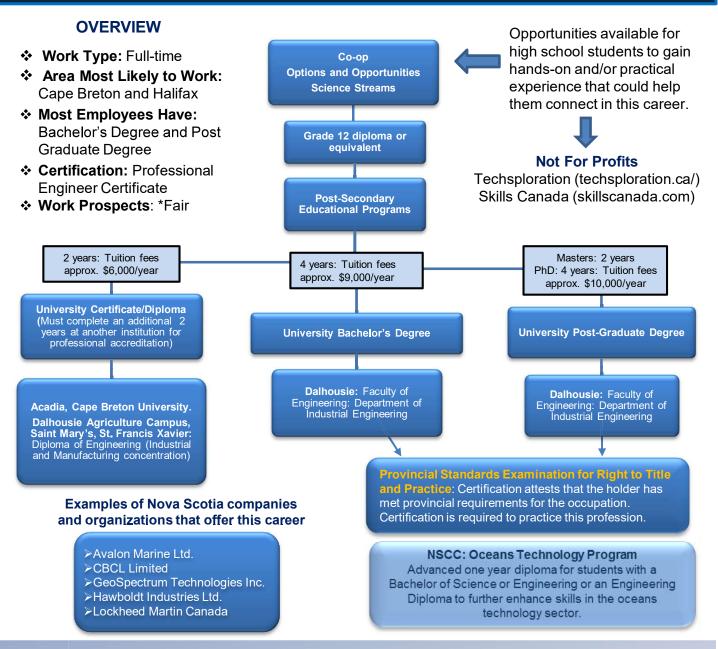




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CAREER PATHWAY



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)
- ➤ Engineers Nova Scotia (http://www.engineersnovascotia.ca)
- >2141 national occupation classification (http://www5.hrsdc.gc.ca/NOC/English/NOC/2011/QuickSearch.aspx?val65=2141)