

Watson Lu, 2014

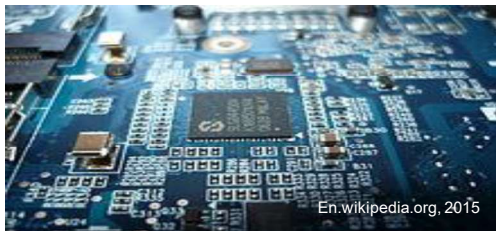
# Computer Engineering

Median Yearly Income (2010): \$67,989

Computer engineers research, plan, design, develop, modify, evaluate and integrate computer and telecommunications hardware and related equipment, and information and communication system.

## WHAT YOU DO

*In the oceans technology sector, computer engineers* embed computers in other machines and systems, build networks to transfer data, and develop ways to make computers, faster, smaller, and more capable to meet the needs of oceans-related industries, and to enhance efficiency and effectiveness in all aspects of oceans-related activities.



En.wikipedia.org, 2015



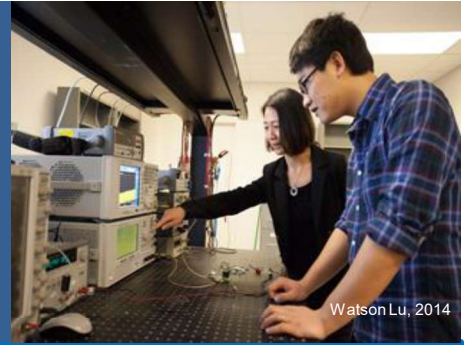
Ocean Sonics, 2015

**Computer engineers perform some or all of the following duties:**

## WHAT YOU NEED

- ❖ Enjoy problem-solving;
  - ❖ Able to think analytically and logically;
  - ❖ Have a natural interest in technology and the development of computer systems and equipment;
  - ❖ Possess strong math skills;
  - ❖ Effective communication skills are essential; and
  - ❖ Have a sense of creativity.
- ❖ Develop and conduct design verification simulations and prototype bench tests of components;
  - ❖ Supervise, inspect and provide design support during the manufacturing, installation and implementation of computer and telecommunications hardware; and
  - ❖ May lead and co-ordinate teams of engineers, technologists, technicians and drafters in the design and development of computer and telecommunications hardware.

# Computer Engineering



## CAREER PATHWAY

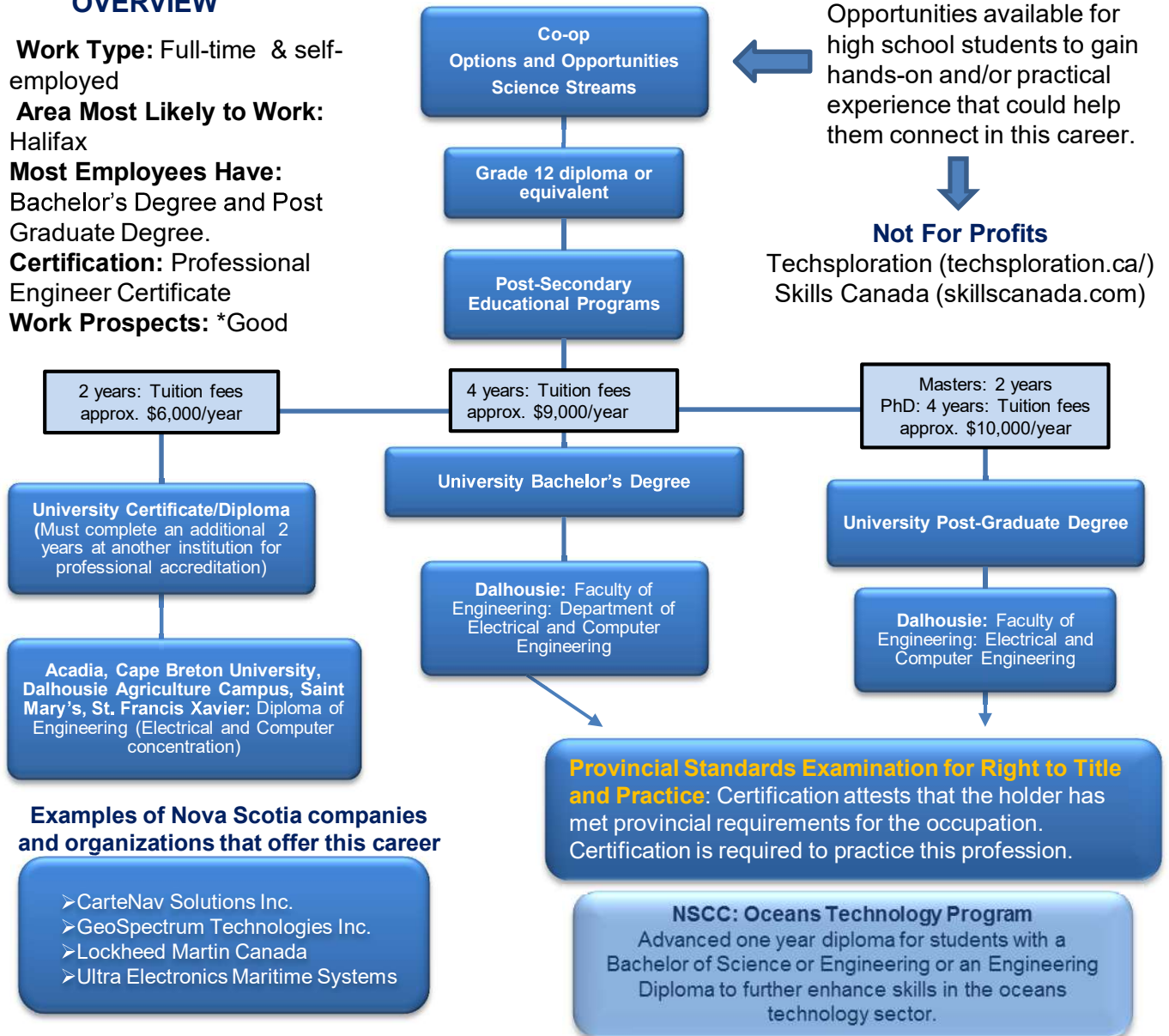
### OVERVIEW

- ❖ **Work Type:** Full-time & self-employed
- ❖ **Area Most Likely to Work:** Halifax
- ❖ **Most Employees Have:** Bachelor's Degree and Post Graduate Degree.
- ❖ **Certification:** Professional Engineer Certificate
- ❖ **Work Prospects:** \*Good

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)



### 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 ([careerplan.nsc.ca](http://careerplan.nsc.ca/))
- Engineers Nova Scotia (<http://www.engineersnovascotia.ca>)
- 2147 national occupation classification <http://www5.hrsdc.gc.ca/NOC/English/NOC/2011/QuickSearch.aspx?val65=2147>