

## **Physicist**

### Median Hourly Income (2010): \$106, 644

Physicists conduct theoretical and applied research to extend knowledge of natural phenomena and to develop new processes and devices in a variety of fields such as electronics, communications, power generation and distribution, and remote sensing.

### WHAT YOU DO

### In the oceans technology sector

physicists conduct research that focuses on air-sea interactions on local and global scales, mixing processes, sediment transport, estuarine and coastal hydrodynamics, ocean acoustics, underwater communication, internal waves, signal processing, and physical-biological processes. In this sector, physicists also work alongside other specialists in order to design and develop new ideas and products.



### WHAT YOU NEED

- You should be imaginative, patient, persistent, and curious;
- Mathematical, analytical, and mechanical inclined;
- You must have the ability to conduct research, use computers, and perform complex calculations; and
- ❖ Have excellent communication skills, as scientists often work in teams.



## Physicists perform some or all of the following duties:

- Design and conduct research in experimental and theoretical physics;
- Carry out analysis of research data and prepare research reports; and
- Participate as a member of a research or development team in the design and development of experimental, industrial equipment, instrumentation and procedures.







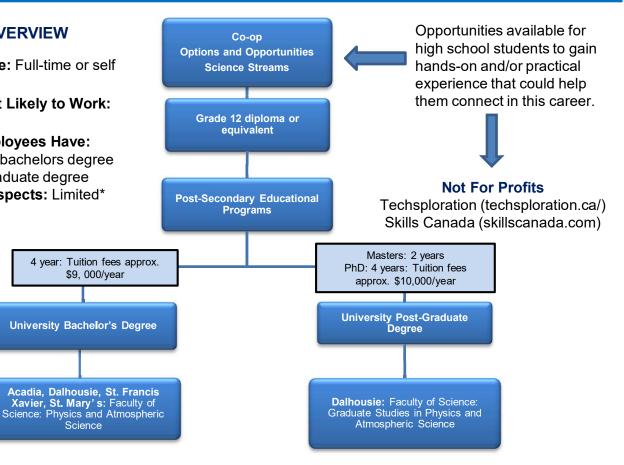
# **Physicist**



### **CAREER PATHWAY**

### **OVERVIEW**

- Work Type: Full-time or self employed
- ❖ Area Most Likely to Work: Halifax
- Most Employees Have: University bachelors degree or post-graduate degree
- Work Prospects: Limited\*



### **Examples of Nova Scotia companies** and organizations that offer this career

Science

- ➤ Department of Environment (Nova Scotia)
- ➤ Department of Fisheries and Oceans Ecosystems and Ocean Sciences

\$9, 000/year

- ➤ GeoForce Consultants
- > Jasco Applied Sciences Ltd.
- Spartan Industrial Marine

#### **NSCC: Oceans Technology Program**

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 "limited", which indicates the chances of a qualified individual finding work is below average
- ➤ Canadian Association of Physicists (http://cap.ca)
- Careers Nova Scotia (http://careers.novascotia.ca/)
- > Create your career plan: careeringear.nscc.ca
- ▶2111 national occupation classification (http://www5.hrsdc.gc.ca/NOC/English/NOC/2011/QuickSearch.aspx?val65=2111)