# COMPUTER ENGINEERS

## NOC 21311: COMPUTER ENGINEERS (EXCEPT SOFTWARE ENGINEERS AND DESIGNERS)

Design, develop, and integrate computer, telecommunications and network systems hardware and related equipment.

**NB QUICK FACTS**

**3-YEAR OUTLOOK**

Moderate

**3-YEAR JOB OPENINGS**

34

**MEDIAN HOURLY WAGE**

$51.44

$40.02 $71.79
LOW HIGH

**TYPICALLY REQUIRED**
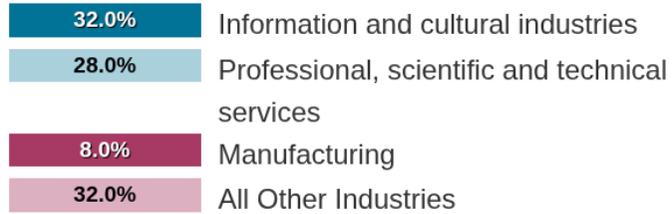
University

**EMPLOYED**

256

**AVERAGE SALARY**

$92,000

## EMPLOYMENT BY INDUSTRY

| | |
|---|---|
| **32.0%** | Information and cultural industries |
| **28.0%** | Professional, scientific and technical services |
| **8.0%** | Manufacturing |
| **32.0%** | All Other Industries |

## EMPLOYMENT BY AGE

| | |
|---|---|
| **Suppressed** | 15-24 |
| **Suppressed** | 25-34 |
| **Suppressed** | 35-44 |
| **Suppressed** | 45-54 |
| **Suppressed** | 55-64 |
| **Suppressed** | 65+ |
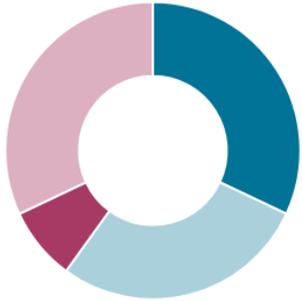
## ALSO KNOWN AS

- Computer Hardware Engineer
- Fibre-Optic Network Designer
- Hardware Circuit Board Designer
- Hardware Development Engineer
- Hardware Technical Architect
- Network Test Engineer

## MAIN DUTIES:

This group performs some or all of the following duties:

- Analyze user requirements, and design and develop system architecture and specifications
- Research, design, develop and integrate computer and telecommunications hardware such as microprocessors, integrated circuit boards and semiconductor lasers
- 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.