

AUTOMOTIVE CYBERSECURITY PROGRAMMER

JOB DESCRIPTION

Automotive Cybersecurity Programmers offer services and develop embedded software and tools to ensure all types of vehicles are protected from cyber-attacks.

JOB DUTIES

- Implementation of in-vehicle cybersecurity strategies and security features
- Provide threat modeling service for cybersecurity relevant vehicle feature and modules
- Find security vulnerabilities by generating various attack scenarios for target systems
- Development of countermeasures for identified security vulnerabilities
- Write and interpret specifications for both internal and external stakeholders
- Consultant for security experiments research projects and programs
- Provide technical cybersecurity expertise

COMMON SKILLS

- Knowledge of in-vehicle cybersecurity systems
- Embedded hardware security
- Cryptography fundamentals
- Automotive connectivity (cellular, satellite, Bluetooth)
- Automotive networking (CAN, LIN, Ethernet, etc.)
- Understanding of architecture, development, and design principles
- Communication
- Analytical skills
- Ability to work independently and collaboratively

EDUCATION

No Canadian programs available

SECTORS

- ICT
- Manufacturing
- Transportation, Logistics, and Warehousing

RELATED WAGES

Windsor-Essex

Median hourly wage: \$38.42/hr

Median annual wage: \$79,919

Ontario

Median hourly wage: \$39.00/hr

Median annual wage: \$81,120

LOCAL DEMAND

2021 Location Quotient
0.29

Number of employees locally

2018: 731

2019: 754

2020: 753