

UNDERGRADUATE SUMMER INTERNSHIP AWARD PROGRAM

Internship opportunities | Summer 2025



Internship project ID : 2025G

Enhancing threat intelligence for internet of things (IoT) systems

Internship supervisor :

Omar Abdul Wahab | Assistant Professor
Department of Computer Engineering and Software Engineering
polymtl.ca/expertises/en/abdul-wahab-omar

Description of the internship project :

The primary objective of this internship is to develop robust threat intelligence mechanisms for IoT (Internet of Things) systems. The focus will be on identifying potential threats, analyzing attack vectors, and devising effective attack mitigation strategies while taking into consideration the heterogeneity of the IoT system in terms of device type, data and security requirements.

Ultimately, this project will help improve public safety and security, increase trust in IoT technologies and better protect critical infrastructure.

Available positions :

1 position

Internship length :

16 weeks

Concepts covered during the internship :

Practical experience in threat intelligence analysis and cybersecurity practices | Research, data analysis, and problem-solving skills | Communication skills through documentation, presentations, and interaction with cybersecurity professionals

Knowledge or skills sought :

Basic knowledge of IoT architecture | Understanding of cybersecurity principles, including confidentiality, integrity and availability | Ability to analyze threat data and correlate information from multiple sources | Proficiency in the Python programming language

Keywords related to the internship :

Cybersecurity | Threat intelligence | Internet of things (IoT)