



CyberSEA Research Lab
Carleton University
🌐 <https://carleton.ca/cybersea/>
in @carleton-cybersea

Systems and Computer Engineering
Carleton University
1125 Colonel By Drive
Ottawa, ON K1S 5B6

Position Available: Undergraduate Student Researcher

Cyber Gymnasium

The **Cyber Security Evaluation and Assurance (CyberSEA) Research Lab** at Carleton University is actively looking for an undergraduate student researcher to contribute to the next phase of funded research project titled "Cyber Gymnasium." The project will be conducted in collaboration with **General Dynamics Mission Systems - Canada (GDMS-C)**.

Position Details

- **Position:** Undergraduate Student Researcher
- **Expected Start/End Dates:** May 2026 — August 2026
- **Hours:** Part-Time (10-20 hours per week)
- **Duties and Responsibilities:** Conduct programming tasks to support the research project activities; prepare reports and demos as need to fulfil project deliverables
- **Salary:** Successful candidates will receive a research assistantship. Specific details are determined at the time of offer and consider numerous factors such as academic standing, research potential, availability of funds, etc. However, the minimum hourly rate is \$17.20/hour after taxes.

Project Description

The Cyber Gymnasium is a training and simulation platform designed to teach Cyber Operators/technician/analysts on how to defend their network systems from adversary attacks and techniques. GDMS-C in partnership with Field Effect will provide the Field Effect Cyber Range platform with training and support to Carleton University for use for the duration of this project.

This phase of the project aims to improve the accuracy of virtual network modeling by investigating mechanisms to simulate or approximate wireless network connections within a Cyber Range environment that currently lacks native wireless support. The candidate will be responsible for conducting a comprehensive literature review and performing a comparative evaluation of wireless simulation and approximation techniques suitable for Proxmox and Cyber Range environments, and for documenting the findings.

Desired Skills/Qualifications

Suitable candidates will be enrolled in Bachelor's degree in Software Engineering, Computer Science, Information Technology, or a related field at Carleton University. Ideal candidates will be self-motivated with an ability

to work independently and to communicate effectively in a team environment. A background in networking, familiarity with Linux/Unix systems, basic scripting skills in Python or Bash, and an interest in wireless networking concepts are considered strong assets.

How to Apply

Interested applicants are to send a **CV** and **Statement of Interest** detailing your research interests, background, and experience **by email** to the CyberSEA Lab Director (Jason Jaskolka: jason.jaskolka@carleton.ca) and Project Lead Researcher (Ali Sadeghi Jahromi: AliSadeghijahromi@cmail.carleton.ca):

Jason Jaskolka, Ph.D., P.Eng.

Systems and Computer Engineering | Carleton University

Canal Building 6206 | 1125 Colonel By Drive | Ottawa, ON K1S 5B6

☎ +1 (613) 520-2600 Ext. 1873

✉ jason.jaskolka@carleton.ca

🌐 <https://carleton.ca/jaskolka/>

in @jason-jaskolka

For more information about how to apply, please visit: <https://carleton.ca/cybersea/positions-available/>

Application Deadline

Applications will be reviewed as they arrive until a suitable candidate is found.