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

**Posting#:** 2027-UG-GD-01

November 13, 2026

# Position Available: Undergraduate Student Researcher

*Cyber Gymnasium*

The Cyber Security Evaluation and Assurance (CyberSEA) Research Lab at Carleton University is actively seeking 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:** January 2027 — April 2027
- **Hours:** Part-Time (10-20 hours per week)
- **Duties and Responsibilities:** Support research projects through programming, user interface design and development, and preparation of technical reports and demos.
- **Salary:** Successful candidates will receive compensation in the form of an undergraduate research assistantship. The hourly rate will be determined at the time of the offer, taking into consideration factors such as academic standing, relevant experience, research potential, and available funding. The minimum hourly rate is $25.00/hour.

## Project Description

The Cyber Gymnasium is a training and simulation platform designed to train cyber operators, technicians, and analysts to defend their networks against adversarial attacks and techniques. GDMS-C, in partnership with Field Effect, will provide the Field Effect Cyber Range platform, along with training and support, to Carleton University.

This position will focus on designing and developing a user interface for a cybersecurity training platform, improving the course creation process, and integrating agentic AI workflows to enhance course development. The candidate will be responsible for designing, implementing, and testing these functionalities to provide a seamless and consistent user experience.

## Desired Skills/Qualifications

Suitable candidates will be enrolled in Bachelor's degree in Software Engineering, Computer Science, Information Technology, Human-Computer Interaction, 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. Experience in user interface design, familiarity with Linux/Unix systems, Python programming, and knowledge of agentic workflows are considered strong assets.

## Research Environment

The successful candidate will join a collaborative, interdisciplinary research environment within the General Dynamics Mission Systems–Canada/Carleton University Cyber Operations Reference Lab (GCOR Lab), hosted by the CyberSEA Research Lab at Carleton University. The GCOR Lab supports applied research in cybersecurity and cyber operations, bringing together projects in cyber training and simulation, network modelling, artificial intelligence, and resilient network services. The candidate will have opportunities to collaborate with undergraduate researchers, graduate students, and postdoctoral fellows working on complementary projects, engage with the broader research activities of the CyberSEA Research Lab, and interact with industry partners and other project stakeholders.

The candidate will receive regular research supervision and participate in research group meetings, technical discussions, collaborative development activities, and peer mentoring. Training and professional development will include research methodologies, technical skills relevant to the project, practical experience with cybersecurity tools and technologies, scientific writing, and the effective communication of research results. The collaborative environment will provide opportunities to learn from researchers with different levels of experience and contribute to multidisciplinary research activities.

The candidate will be encouraged and supported in presenting their work at research and professional events, contributing to technical reports and scholarly publications, and developing the skills needed to conduct independent research and collaborate effectively within a research team. Opportunities to engage directly with project partners, including General Dynamics Mission Systems–Canada, will provide exposure to industry perspectives, applied research challenges, and the practical considerations involved in translating research outcomes into operational contexts.

## Application Enquiries

Due to the high volume of generic and automated enquiries, only messages that explicitly identify an open position currently posted by the CyberSEA Research Lab and clearly explain how the applicant's background, experience, and research interests align with that position will be considered. Generic enquiries or messages that do not demonstrate a specific connection to the advertised project will not receive a response.

## 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). Please include the specific **position posting number** in the subject line of your email.

### Contact

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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.