



**CyberSEA Research Lab**  
Carleton University  
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in @carleton-cybersea

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

## Position Available: Undergraduate Student Researcher

*Directory Services and Identity, Credentials, and Access Management (ICAM) on DDIL Mission-Critical Networks*

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 "Directory Services and Identity, Credentials, and Access Management (ICAM) on DDIL Mission-Critical Networks." 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

This project explores and evaluates alternative directory and Identity, Credential, and Access Management (ICAM) solutions for Disrupted, Disconnected, Intermittent, and Limited-bandwidth (DDIL) operational environments. The focus is on identifying viable alternatives to Microsoft Active Directory, assessing their suitability under constrained connectivity, and prototyping selected solutions to assess architectural fitness.

This phase of the project will involve setting up test deployments for selected directory services and ICAM solutions, as well as exploring and documenting DDIL simulation mechanisms. These mechanisms will be used to conduct evaluations of the directory services and ICAM solutions.

### 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 good understanding of directory services and ICAM concepts and hands-on experience deploying and configuring Linux-based directory solutions (OpenLDAP, Keycloak, or similar) and basic scripting skills in python or bash 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](mailto:jason.jaskolka@carleton.ca)) and Project Lead Researcher (Ali Sadeghi Jahromi: [AliSadeghijahromi@cmail.carleton.ca](mailto:AliSadeghijahromi@cmail.carleton.ca)):

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

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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.