

The Value of IEEE Membership & Student Applied Research

(Kristina Cormier, Ajitesh Parihar and Dolcy Sareen) Okanagan College IEEE Student Branch

What is IEEE?



World's largest technical professional organization



Global network of engineers, researchers, and students



Publishes leading research & sets industry standards



IEEE

*Advancing Technology
for Humanity*

Okanagan College IEEE Student Branch

A student-led community focused on technology & innovation. Bridges classroom learning with real-world experience

We organize:

- ▶ Technical workshops
- ▶ Competitions
- ▶ Research discussions
- ▶ Industry networking



Connecting Students With industry



**NETWORKING
EVENTS WITH
PROFESSIONALS**



**GUEST SPEAKERS
FROM INDUSTRY**



**ALUMNI
CONNECTIONS**



CAREER INSIGHTS



**JOB &
INTERNSHIP
OPPORTUNITIES**



**PROFESSIONAL
RELATIONSHIPS**

Membership Benefits

Academic

- Access to research (IEEE Xplore)
- Learning resources



Career

- Resume building
- Networking
- Leadership experience

Personal Growth

- Communication
- Confidence
- Teamwork



Student Applied Research

Applied research = solving real-world problems

Our focus areas:

- ▶ Machine learning
- ▶ Accessibility tools
- ▶ Engineering systems



CCECE 2026 Published papers

3 research papers accepted

Research areas:

Algorithmic Trading

Wayfinding Systems

Accessibility for Visually Impaired Individuals

Internships & Global Opportunities

- Secured internship through prior research experience in computer science
- Tackled accessibility barriers in diagram-based CS content
- Converted complex visuals into structured data
- Ensured compatibility with assistive technologies (e.g., NVDA)



Scholarships, Awards, and Funding

► Available through:

- Some sections
- Chapters / Affinity Groups
- Conferences / Events
- Research (Humanitarian)

John Deane Award 2025

In keeping with Deane’s long service to the IEEE, this award honours active involvement in the IEEE & extra-curricular student affairs and high scholastic standing.



Kristina Cormier

Summary of Scholarships, Grants & Prizes Available		
Name	Value (# available)	Deadline
IEEE Canadian Foundation Scholarships	\$5,000 or \$2,500 (5/yr)	March 15 (2025: 2/5 available extended to Nov 15 if required)
IEEE McNaughton Learning Resource Centre Grants	varies	November 15
IEEE Canadian Foundation Special Grants	varies	Mar 15, Aug 15, Nov 15
IEEE Canada Power Quality Scholarship	\$1,500 (1/yr)	March 15
IEEE Canada Vehicular Technologies Travel Grant	\$1,200 (2/yr)	Mar 15, Aug 15 and Nov 15, until total grant awarded.
IEEE Canada Women In Engineering Prize	\$1,000 (1/yr)	March 15
IEEE Canadian Foundation Dr. Raymond D. Findlay Scholarship	\$1,000 (1/yr)	March 15
IEEE Canadian Foundation Dr. Robert T. H. Alden Scholarship	\$1,500 (1/yr)	March 15 (2025: extended to Nov 15 if required)
IEEE Canadian Foundation Gargantini-Strybosch Scholarship	\$5,000 (1/yr)	March 15 (2025: extended to Nov 15 if required)
IEEE Canadian Foundation Nicke Cercone Graduate Scholarship in Computer Science	\$7,500 (1/2yr)	Every second year
IEEE Canadian Foundation Dr. John William Bandler Graduate Scholarship in Engineering Design and Renewal	\$5,000 (1/yr)	March 15
IEEE Canadian Foundation Terry Branch Scholarship	\$1,000 (1/yr)	March 15

<https://ieeecanadianfoundation.org/EN/grants.php>



IEEE CSYPC RECAP DAY 2 SATURDAY



IEEE CSYPC RECAP DAY 1 FRIDAY



IEEE CSYPC RECAP DAY 3 SUNDAY



with Wolfram Lunscher M.A.Sc., P.Eng., PMP a...

CSYPC 2025

- ▶ TRU, UBCO, & OC Chairs attended
- ▶ Built many strong relationships
- ▶ Many hidden opportunities
- ▶ Hotel & food provided
- ▶ All approved expenses reimbursed
- ▶ An abundance of positive encouragement

IEEE CANADA STUDENTS AND YOUNG PROFESSIONALS CONGRESS

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September 12 - 14 | Hilton Toronto Airport, Toronto, Canada



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JOIN AS A STUDENT

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Experience world-wide benefits

- ▶ Current hot topics
- ▶ Conferences / events
- ▶ Networks & relationships
- ▶ Unexpected opportunities

<https://www.ieee.org/membership/join>

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With IEEE, you're connected to what's next in tech. Gain access to groundbreaking research, trusted standards, and a global network of more than 500,000 engineers.

Dear Youry Khmelevsky,

Thank you for submitting your application with the title *An integrated indoor-outdoor wayfinding platform with machine learning (ML) and artificial intelligence (AI) to improve navigation within large, complex, multi-level facilities* (ID 1442) to the Research Platforms and Portals 2026 competition process.

This message is to confirm that your application has been **successful**.

Your application received an overall rating of **2.8**. This year, only applications with a score of 2.1 (out of 5) or above were eligible to receive an allocation. Any specific comments the expert reviewers may have provided regarding your application can be found at the end of this letter (they are also available in the page of your application on CCDB).

Comments from the Resource Access Program Administrative Committee:

While your request for 200 core-years on Fir was eligible, after scaling the resulting allocation is small enough that you can meet your need for CPU resources by computing opportunistically with your Default Resource Allocation Project (RAP), and for this reason you are not receiving a CPU allocation at this time.

Your project has been awarded the following resources:

- **HPC allocations [rpp-youry : Manage RAP memberships]**
 - 10.0 RGU-years on the **fir-gpu** system
 - 32 TB of /project storage on the **fir-storage** system
 - 57 TB of /nearline storage on the **fir-storage** system
- **Cloud allocations [cpp-youry : Manage RAP memberships]**
 - 48 VCPU-years on the **arbutus-persistent-cloud** system
 - 7 Number of cloud instances on the **arbutus-persistent-cloud** system
 - 72 GB of RAM on the **arbutus-persistent-cloud** system
 - 7 volumes on the **arbutus-persistent-cloud** system
 - 7 snapshots on the **arbutus-persistent-cloud** system
 - 2 Floating IP addresses on the **arbutus-persistent-cloud** system
 - 20 TB of cloud object storage on the **arbutus-persistent-cloud** system
 - 20 TB of cloud shared filesystem storage on the **arbutus-persistent-cloud** system
 - 61,700 GB of cloud volume and snapshot storage on the **arbutus-persistent-cloud** system

Your allocation will be available starting on **Tuesday, April 7, 2026**, and will be valid until **Thursday, April 1, 2027**. You can find documentation on how to use your resource allocation [here](#).

Providing these resources to your research group costs roughly **\$17,022**. This amount includes all capital (amortized) and operational costs incurred and is an average cost across all facilities.

Your project has been awarded the following resources:

- **HPC allocations [rrg-youry : Manage RAP memberships]**
 - 54 TB of /project storage on the **nibi-storage** system
- **Cloud allocations [crg-youry : Manage RAP memberships]**
 - 16 VCPU-years on the **arbutus-persistent-cloud** system
 - 4 Number of cloud instances on the **arbutus-persistent-cloud** system
 - 32 GB of RAM on the **arbutus-persistent-cloud** system
 - 7 volumes on the **arbutus-persistent-cloud** system
 - 7 snapshots on the **arbutus-persistent-cloud** system
 - 2 Floating IP addresses on the **arbutus-persistent-cloud** system
 - 60,000 GB of cloud volume and snapshot storage on the **arbutus-persistent-cloud** system

Your allocation will be available starting on **Tuesday, April 7, 2026**, and will be valid until **Thursday, April 1, 2027**. You can find documentation on how to use your resource allocation [here](#).

Providing these resources to your research group costs roughly **\$3,800**. This amount includes all capital (amortized) and operational costs incurred and is an average cost across all facilities.

What you need to know if you have a compute allocation



**Digital Research
Alliance of Canada**

Thank You!

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