

Western
UNIVERSITY • CANADA

Summer Research Opportunities in Engineering

Summer 2024

Thank you for joining us!

To ensure the smooth delivery of this session, please ensure you are following the etiquette for Zoom Meetings listed below:

1. Mute your microphone
2. Keep your camera turned off for the duration of the Session.
3. Please use the Chat feature to submit your questions, and we will answer them all at the end.

Undergraduate Summer Research Awards

- Provides undergraduate students an opportunity to gain research experience by participating in research activities in a research lab under the supervision of a faculty member
- Duration: 16 consecutive weeks (full-time) from May to August
- Financial support is provided
- Part-time hours and vacation leave are **not** allowed

Types of Awards

1. NSERC Undergraduate Summer Research Scholarship (USRA)
2. Western Undergraduate Student Research Internship (USRI)
3. Dean's Award
4. Summer Research Award
5. Frugal Biomedical Innovations Research Internships
6. Northern Tornadoes Project / Northern Hail Project
7. Thompson Centre for Engineering Leadership & Innovation

Types of Awards (cont.)

- All awards provide similar summer research experiences for undergraduate students
- Minimum financial support is \$7,500 for the 16-week period (amounts vary from \$7500 – \$8600)
- Students often receive more than the minimum amount
- Some differences in eligibility
- Do not consider it as a summer job but rather a funded opportunity to gain research experience
- A great opportunity to try out research...UG thesis?
Grad school?

NSERC USRA

- A Student Award provided by the Natural Sciences and Engineering Research Council of Canada (NSERC)
- Allows Undergraduate students an opportunity to participate in Research activities
- Provide financial support for research experience through the host university
- NSERC encourages qualified Indigenous students to apply to this program

Award value: \$8,680

Eligibility

- Canadian Citizen or Permanent Resident
- Registered full-time student in the term immediately before the award
- Do not hold higher degrees in natural science or engineering
- Have obtained a cumulative average of at least “B+” (78%)
- Have not begun a graduate program prior to tenure of award
- Not enrolled in an undergrad professional degree (M.D., D.D.S., B.Sc.N.)

Western Undergraduate Student Research Internship (USRI)

- A student award provided by Western Research
- Same value as NSERC USRA
- Programming is similar to NSERC USRA, enhanced by additional professional development opportunities hosted by Student Experience and Western Libraries
- Program concludes with an exhibition event held at the end of the summer

Award value: \$8,680

Eligibility

- Canadian Citizens/ Permanent Residents, and International students may be considered
- Registered full-time student in the term immediately before the award
- Do not hold higher degrees in natural science or engineering
- Have obtained a cumulative average of at least “B-” (70%)
- Have not begun a graduate program prior to tenure of award
- Not enrolled in an undergrad professional degree (M.D., D.D.S., B.Sc.N.)

Dean's Award

- Similar programming as NSERC USRA
- Open to Canadian Citizens/ Permanent Residents, and International Students
- Minimum cumulative average of 70% is required

Award value: \$7,500

Summer Research Award

- Similar programming as NSERC USRA
- Open to Canadian Citizens/ Permanent Residents, and International Students
- Minimum cumulative average of 70% is required

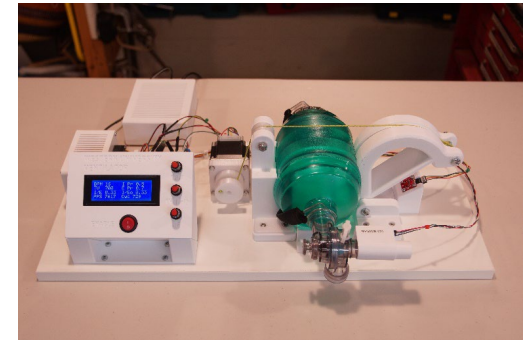
Award value: \$7,500

Frugal Biomedical Innovations Program Objectives

Technology development under conditions compliant with international quality management and medical device regulatory standards

Partnerships to facilitate deployment and testing of devices in remote and low-resource communities in Canada and Africa

Education in frugal design principles and open-source hardware development



Low-cost emergency ventilator, D. Holdsworth, Robarts Research Institute

Frugal Biomedical Innovations Research Internships

Apply for projects proposed by faculty members in the program.

Participating labs are located in multiple Faculties and the London hospitals.

Project descriptions will be posted on the School of BME website, and the USRA website during December.

You may apply for multiple projects with one application submission.

Project supervisors will interview qualified applicants in February.

Award Value: \$8,680

Northern Tornadoes Project / Northern Hail Project

2024 Summer Internships

Eligibility:

- Canadian citizen or landed immigrant
- Registered in any undergraduate university program at a Canadian university (senior high school students may be considered)
- Be available from May 13 – August 30, 2024

Available internships include:

- **Northern Tornadoes Project - Field Internship**
(Post-Event Tornado Damage Surveys)
- **Northern Hail Project - Field Internship**
(Real-Time Hailstorm Chasing)
- **Northern Tornadoes Project - Research Internship**
- **Northern Hail Project - Research Internship**

The hailstone collection work will be based out of Olds, AB and travel stipends will be provided. For those interested in the collection work, storm chasing experience and a good driving record will be considered assets (multiple internships available).

Applications close Friday, January 26, 2024. For more information, visit:

<https://www.eng.uwo.ca/graduate/funding/nserc-usra.html>

or email ntp@uwo.ca

Award value varies



Thompson Centre for Engineering Leadership & Innovation

- Similar programming as the Dean's Award
- Open to Canadian Citizens/ Permanent Residents, and International Students
- Minimum cumulative average of 70% is required

Award value: \$7,500

Student Testimonials

- Siena Ianni-Palarchio, *Civil & Environmental Engineering*
- Steven Krizsan, *Mechanical & Materials Engineering*

Before Applying for Summer Research Awards

- Most of these awards are competitive and the selection criteria is primarily based on the academic average
- Ensure that your academic average is at or above the required minimum average
- A Faculty Supervisor is **required** who is willing to serve as the research supervisor
- Reach out to faculty members whose research fields are of interest to you
- Arrange a meeting with them and discuss about potential summer project(s)
- Before applying, ensure that you have the confirmation and agreement of a Faculty Supervisor

How to Apply for Undergraduate Summer Research Awards

The Faculty of Engineering will be administering a SINGLE APPLICATION for students to be considered for all summer award competitions

Application will open on Monday, December 4th 2023 and close on Friday, January 26th 2024

Current Projects & More Information:

<https://www.eng.uwo.ca/graduate/funding/nserc-usra.html>

Need more information?

For information on all undergraduate summer research programming:

<https://www.eng.uwo.ca/graduate/funding/nserc-usra.html>

For NSERC-specific information:

http://www.nserc-crsng.gc.ca/Students-Etudiants/UG-PC/USRA-BRPC_eng.asp

Questions?



Western
UNIVERSITY • CANADA