



Western
UNIVERSITY • CANADA

Summer Research Opportunities in Engineering

Summer 2022

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. Hold all questions until the end! We will open the Chat feature to collect your questions at the start of the Question & Answer period.

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. Northern Tornadoes Summer Research Internship

Types of Awards (cont.)

- All awards provide similar summer research experiences for undergraduate students
- Minimum financial support is same for all awards (\$7,500)
- 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 (Research Award)
- Try out research...UG thesis? Grad school?

N SERC 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

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

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

Summer Research Award

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

Northern Tornadoes Project

2021 Summer Research 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 2 – August 26, 2022



This year, the focus will be on **post-event tornado damage surveys** and **real-time hailstone collection and analysis**. There may also be associated coding-focused projects.

The hailstone collection work will be based out of Calgary 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.

Applications close Friday, January 28, 2022.

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

For more information, visit the NTP website:

www.uwo.ca/ntp

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 is administering a SINGLE APPLICATION for students to be considered for all summer award competitions ([APPLICATION LINK HERE](#))
- Domestic students who are interested in being considered for NSERC USRA will be notified by the Faculty Graduate Office of their eligibility to apply by early February.
NOTE: Any application submitted to NSERC without the endorsement of the Faculty Graduate Office will NOT be considered

Application deadline: Friday, January 28, 2022

Graduate and Postdoctoral Studies

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Undergraduate Summer Research Awards



Western Engineering offers different types of undergraduate summer research awards (see below for details). The awards will be administered through a SINGLE APPLICATION for students to be considered for all summer award competitions.

WESTERN STUDENTS

[APPLY HERE](#)

NON-WESTERN STUDENTS

[APPLY HERE](#)

Undergraduate Student Research Awards

- ▶ NSERC USRA
- ▶ Western Undergraduate Summer Research Internship
- ▶ Dean's Award
- ▶ Student Research Awards (SRA)
- ▶ Bill & Barbara Etherington Undergraduate Research Fellowship
- ▶ Northern Tornadoes Project 2021 Summer Research Internships

Below you will find a listing of available projects for Undergraduate Summer Research in 2022. This page is updated regularly as project information is received by the Graduate Office. This is not a comprehensive list of all opportunities, so please feel free to reach out to other faculty members on your own to explore your options!

▶ CBE

▶ CEE

▶ ECE

▶ MME

NSERC USRA

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