

Research opportunities for Geomatics Engineering undergraduate students

(January 2024)



SCHULICH
School of Engineering
DEPARTMENT OF
GEOMATICS
ENGINEERING

Undergraduate Research Experience

The **Program for Undergraduate Research Experience (PURE)** and the **Schulich School of Engineering** provide financial support to undergraduate students to conduct research for 8, 12 or 16 weeks between May and August. Students need to find a faculty member to serve as the supervisor of the research work.

Eligibility: all undergraduate students

Action: apply by 2 February 2024

More details: <https://taylorinstitute.ucalgary.ca/pure-awards>

The Natural Sciences and Engineering Research Council of Canada (NSERC) **Undergraduate Student Research Awards (USRA)** program provides support for research work experience in the natural sciences and engineering. Undergraduate students work full-time on a research project for 16 consecutive weeks on a full-time basis in a term (Fall, Winter, or Summer) with a faculty member.

Eligibility: all undergraduate students

Action: apply by 2 February 2024

More details: <https://research.ucalgary.ca/students/nserc-undergrad>

Accelerated MEng (4+1 Program)

Students entering their final year of a BSc in engineering or science can take up to three extra-to-degree, pre-approved, senior undergraduate or graduate courses. These course credits will transfer towards the MEng degree in geomatics engineering, leaving students with only seven courses remaining in their master's degree; and complete it within 8-12 months after graduation from the BSc program. Interested students – who have completed their third year of undergraduate studies – can email meng@ucalgary.ca to receive more information on pursuing this option.

Eligibility: 4th year students

Action: take up to three extra-to-degree courses in your final year of study

More details: <https://schulich.ucalgary.ca/geomatics/programs/graduate/master-engineering-course-based>

MSc Scholarships

Scholarships are available to recent BSc graduates in Geomatics Engineering at the University of Calgary to pursue an MSc degree in Geomatics Engineering at the University of Calgary. Priority will be given to graduates of the current academic year (2023-24) followed by graduates from past years (2022-23 or earlier). Number of Scholarships: 4; amount: \$15,000/student; period of scholarship: 1 September 2024 – 30 April 2025 (subject to good academic standing, the student's supervisor will continue to provide funding for a total period of 2 academic years)

Eligibility: 4th year students and recent graduates

Action: apply by 29 February 2024

More details: <https://schulich.ucalgary.ca/news/msc-scholarships-2024-25>

Startup and Innovation Summer Student Awards

To position Geomatics Engineering at the forefront of Work-Integrated-Learning (WIL), with Tecterra's funding (<https://tecterra.com>) we will offer 15 Startup and Innovation Summer Student Awards annually to allow Geomatics Engineering students to complete summer work-terms (with a duration of 8- 12- or 16- months) with Geomatics start-up companies or to work on applied industry related problems under the supervision of faculty members in the Department of Geomatics Engineering.

Eligibility: all students in Geomatics Engineering; priority to 2nd year undergraduate students.

Action: apply by mid-February (list of companies and dates to be announced soon)

More details: TBA

Supplementary information:

The **Master of Science (MSc) degree in Geomatics Engineering** has been globally recognized for its research contributions in the rapidly evolving discipline of Geomatics Engineering. With 16 faculty members, 9 research laboratory spaces, and annual multi-million-dollar revenue in research funding, the graduate research program specializes in four research priorities: geodesy, remote sensing and earth observation; digital imaging systems; positioning, navigation and wireless location; and GIScience and land tenure. Read more about the research degree programs here: <https://schulich.ucalgary.ca/geomatics/programs/graduate>

The **Professional Master's degree (MEng) in Geomatics Engineering** is a graduate degree program designed for professionals with a BSc in engineering, computer science, physics, or geography, and offers them a competitive advantage in an increasingly global economy that is more and more reliant on digitized location and positioning data. Read more about the MEng in Geomatics Engineering here:

<https://schulich.ucalgary.ca/geomatics/programs/graduate/master-engineering-course-based>

Why pursue a master's degree?

Here are some **reasons to pursue a master's degree** after graduation. A master's degree can:

- offer you more chances to get a top job (at the beginning or later in your career);
- accelerate your career growth and earn more money;
- master your knowledge by learning new skills and discovering new areas of interest;
- give you a chance to work on something that is truly life-changing;
- provide you with access to more career pathways; and
- expose you to new connections and networks that will help you in your professional career.

More information:

Students are encouraged to reach out to the faculty members of Geomatics Engineering department to further discuss the various research opportunities.