Faculty of Engineering

Summer Undergraduate Research in Engineering (SURE)

What is SURE?

Established in 2009, the SURE Program provides undergraduate students with early exposure to leading-edge research happening in the Faculty of Engineering. Within our various research facilities and labs, students work closely with academic researchers and graduate students on a specific project for sixteen weeks over the summer. The SURE experience also offers a number of workshops and events designed to help students network and engage with their peers, while also teaching them how to construct and present their research findings. At the end of the program, SURE students participate in the Research Poster Presentation, where they present their research to a panel of judges, as well as community members from across McGill.

Benefits of SURE

- Early involvement in research projects under the mentorship of a professor and graduate students

- Insight and exposure to the graduate experience at McGill University

- Paid traineeship that will be recorded on continuing McGill student's transcripts

- Early access to research facilities and university resources

- Development of soft skills including presentation, communication and networking skills

- Hands-on application of principles learned in the undergraduate classroom

Program Information

- 16-week program from May to August

- Students receive awards worth a minimum of $7,500

- Funding provided by the Faculty of Engineering, NSERC Undergraduate Student Research Award (USRA) Program, supervisor grant funds, and support from the Faculty's generous donors

- Open to McGill and Non-McGill students and to those students who have graduated in the preceding Winter term

Eligibility Requirements

- Students in Year 1, Year 2, or Year 3

- Minimum 3.0 CGPA

- To be eligible for NSERC USRA funding, students must meet additional NSERC eligibility requirements, as per the NSERC website

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How do I apply?

Program details and application dates are posted in January, please see the application information on the SURE webpage:
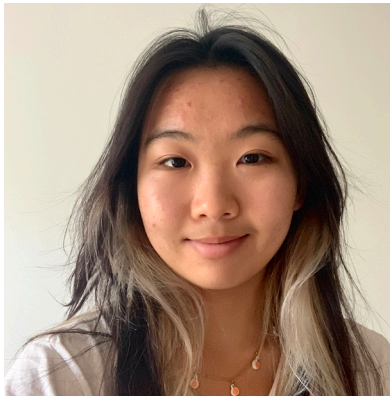
www.mcgill.ca/engineering/students/undergraduate/research

Contact Us

For more information about the SURE Program:

sure-info.engineering@mcgill.ca

www.mcgill.ca/engineering/students/undergraduate/research

"SURE students initiated discussions with each other and professors to decide where to focus our efforts and find creative solutions to navigate constraints."

This past summer, we got the opportunity to work on a SURE project called Erickson at the Movies. Our research primarily involved gathering appearances of architect Arthur Erickson's buildings on film such as Robson Square as the Pyongyang presidential palace in *The Interview*. We gathered 275 entries and edited video clips into supercuts to explore fictional and non-fictional depictions of Erickson's architecture. Our research raised questions about how architecture on film affects how we experience space. Throughout the summer, we took a collaborative approach towards our project. SURE students initiated discussions with each other and professors to decide where to focus our efforts and find creative solutions to navigate constraints.

Lauren Kim, SURE Winner, and May Bi (Architecture)

"It was also a great way to take what I have learned in my studies at McGill and apply it in a real-world scenario."

In the summer of 2021, I had the opportunity to work on a diagnostic tool that would be able to accurately detect skin cancer by comparing the dielectric properties of the tumour with the healthy skin that surrounds it. As a student who is considering pursuing graduate school, I applied for the SURE Program in the hopes of learning more about the type of research I would do as a graduate student, and I did just that. It was also a great way to take what I have learned in my studies at McGill and apply it in a real-world scenario.

Oliver Miller (Bioengineering), SURE Winner

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