

## Faculty of Engineering

### What is software engineering?

Software engineers specify, design, develop, and test complex software used in a variety of applications such as flight navigation, video games, web and mobile applications, self-driving cars, autonomous robots, or machine learning. They may perform similar functions as general software developers, but software engineers holistically apply the principles and techniques of computer science, engineering, and mathematical analysis to cover the entire lifecycle of engineering modern software applications.

### Why choose the Software Engineering Co-op program?

The Software Engineering Co-op Program will offer students the opportunity to focus their studies on the skills needed to design and develop complex software systems while participating in 4 mandatory industrial work-terms, leading to a B.Eng. degree with 16 months of paid professional work experience prior to graduation. Co-operative education

combines traditional, in-class education with supervised hands-on experience. Students will alternate study and work-terms and take on increasingly challenging work that will help define post-graduation goals.

### What are the benefits of co-op education?

Students in this program will complete paid work-terms in research and industrial settings locally, nationally, or internationally. During these work-terms, students perform technical engineering tasks and submit required assignments, for which they receive 2 university credits, a grade, and a formal evaluation by the employer.

Students will benefit from the co-op experience by:

