



FACULTY OF  
ENGINEERING &  
APPLIED SCIENCE

# SOFTWARE SYSTEMS ENGINEERING

In our Software Systems Engineering (SSE) program, you'll learn to coordinate the creation, installation, maintenance, and growth of various software systems. From artificial intelligence and app development to multimedia and transactional systems, you'll be able to work with companies and organizations of all sizes. Plus, the software industry is always evolving, making it a fast-paced environment full of opportunities for continual growth.

**Software Systems Engineering is a Canadian Engineering Accreditation Board (CEAB) accredited program!**



## PROGRAMS

- Bachelor of Applied Science in Software Systems Engineering
- Bachelor of Applied Science (Co-op) in Software Systems Engineering
- Bachelor of Applied Science (Internship) in Software Systems Engineering
- Master of Engineering (Project)
- Master of Applied Science (Research)
- Master of Engineering (Coop)
- Doctor of Philosophy (Research)



## LEARN BY DOING!

The SSE program offers hands-on learning with real-world experience. Plus, you'll have access to laboratories exclusive to software systems engineering students, dedicated instructors, and cutting-edge technology.

### CO-OPERATIVE EDUCATION AND INTERNSHIPS

#### Earn while you learn!

As an SSE student, Co-op work placements allow you to earn between \$8,000 and \$13,000 per semester while gaining valuable real-world experience. Plus, after completing the required number of work terms, your degree will have a co-op designation.

### HANDS-ON LABS

- Computer lab
- App lab



# SOFTWARE SYSTEMS ENGINEERING CONT'D



Our faculty members conduct research on a variety of software-related topics, including:

## RESEARCH AREAS:

- Artificial intelligence
- Mobile Software Tools and Applications
- Logistics and Tracking Software
- Computer Vision and Image Processing
- Game development
- Machine Learning

## POTENTIAL CAREERS:

- Game Software Systems Developer
- Software Developer
- Software Engineer
- Web Application Developer
- Network Engineer
- Systems & Solutions Architect
- Project & Knowledge Manager
- Systems Administrator



**As an Environmental Engineer, you could potentially make \$105,054 per year\*!**

\*Based on the 2022 APEGS Salary Survey Summary Results. Visit <https://www.apegs.ca/assets/apegs-salary-survey-summary-results-corrected.pdf> for more information.

## SYSTEMS APPROACH

Our Systems Engineering approach combines classes in areas such as business, economic, social, environmental, and professional awareness and focuses on the range of skills you need to be a professional engineer in the modern world. Combining the human elements of engineering with the technical side prepares you to work in the broader context of multi-disciplinary, team design approach.



From now until 2028, new **job openings are expected to total 27,500, while only 24,000 new job seekers are expected to be available to fill them.** With more jobs than job seekers, you'll have your pick of prospects — in fact, the employment rate for SSE students is expected to be higher than average!



University  
of Regina



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