

# ELECTRONIC SYSTEMS ENGINEERING

E lectronic Systems Engineering (ESE) looks at how circuits, electronic devices, and communication systems come together in the electronics we use in our daily lives. From microcircuits to the electronic elements inside personal and industrial technology, you'll learn how to design, develop, and manage communication, power, and manufacturing systems that keep us connected. Plus, you'll graduate knowing how to solve problems, manage projects, and communicate effectively. Electronic Systems Engineering is a Canadian Engineering Accreditation Board (CEAB) accredited program!



### PROGRAMS

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





## **LEARN BY DOING!**

The ESE program offers hands-on learning with real-world experience. Plus, you'll have access to five fully equipped laboratories, dedicated instructors, and cutting-edge technology.

#### **CO-OPERATIVE EDUCATION AND INTERNSHIPS**

**Earn while you learn!** As an ESE 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

- Power systems and power protection and control lab designed in partnership with SaskPower Corporation
- Control systems lab with industry-standard automation equipment
- Network/communications lab with industry-standard network equipment and communication trainers
- Micro-electronics/embedded lab with industry-standard microcontrollers
  and test equipment
- Fully equipped electronics lab

# ELECTRONIC SYSTEMS ENGINEERING CONT'D







# During your studies, you'll have the opportunity to participate in cutting-edge research.

## **RESEARCH AREAS:**

- Advanced Communication Systems
- Data Analytics
- Future Energy Systems

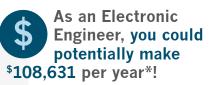
# FACULTY AWARDS AND APPOINTMENTS:

Canadian Micro-Electronics
 Corporation

Cyber-Physical Systems

- Association of Professional Engineers and Geoscientists of Saskatchewan
- POTENTIAL CAREERS AND CAREER SETTINGS:
- Wired and wireless communications
- Embedded systems
- Electric power
- Control and Automation
- Consulting

- Advisory Boards
- NSERC Selection Committee
- Light/Heavy industrial environments
- Design
- Development
- Mining Operations



\*Based on the 2022 APEGS Salary Survey Summary Results. Visit https://www.apegs.ca/assets/apegssalary-survey-summary-results-corrected.pdf for more information. **Personalize your program** to your interests and career goals by choosing **one or more of four elective course groups:** 

- Communications
- Micro-electronics
- Control systems
- Power





FACULTY OF ENGINEERING & APPLIED SCIENCE CONTACT U OF R ENGINEERING AND APPLIED SCIENCE FOR MORE INFORMATION ABOUT OUR FACULTY OR PROGRAMS:

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