What to do with a degree in

**ELECTRICAL ENGINEERING**

Electrical engineering touches virtually every facet of today’s high-tech world. Electrical engineering concepts are used extensively in telecommunication, technology, information processing, imaging and electrical power systems. Being an electrical engineer is about driving innovation whether it’s designing a safer and more reliable power system or creating the next evolution of smart phone features. As an electrical engineer, you could be involved in wide variety of exciting projects from designing life support systems for hospitals to developing solar panels to be used in space.

**Key Skills & Knowledge**

- Electric machines, electronic devices, circuits and networks, radio communication, computers, control systems
- Critical thinking, complex problem solving and decision making
- Planning, prioritizing and attention to detail
- Oral and written communication skills
- Research and design
- Teamwork and project management

**Sample Job Titles**

- Aerospace Engineer
- Antenna Engineer
- Biomedical Engineer
- Broadcasting Engineer
- Control Systems Engineer
- Cyber Security Engineer
- Design and Development Engineer
- Electrical Distribution Engineer
- Electrical Engineer
- Electrical Research Engineer
- Electronics Engineer
- Field Service Engineer
- Firmware Engineer
- Instrumentation and Control Engineer
- Naval Combat Systems Engineering Officer
- Network Architect
- Power System Engineer
- Signal Processing Engineer
- Software Engineer
- Technical Services Engineer
- Test Engineer
- Wind Performance Engineer

Some of these roles may require further training, certification or education. Check out the Alberta Government’s occupational profiles for salary info and more detail: [alis.alberta.ca/occinfo](alis.alberta.ca/occinfo)

**Potential Industries**

- Aerospace and Aviation
- Biomedicine
- Business
- Communications
- Computer Hardware
- Electrical Utilities
- Energy and Electrical Power Systems
- Government
- Imaging
- Information Processing
- Instrumentation and Control Products
- Companies
- Manufacturing
- Nanotechnology
- Power Systems
- Software
- Solar Technology
- Technology
- Telecommunications
- Transportation

**Need help deciding what to do?**

Formal Career Assessments like the Strong Interest Inventory and the Myers Briggs Type Indicator can be helpful tools for your career development. Request an assessment via CareerLink
Associations provide an opportunity for continued professional development. Many also offer networking opportunities and other events for their members.

- Association of Professional Engineers and Geoscientists of Alberta (APEGA): [https://www.apega.ca/](https://www.apega.ca/)
- Canadian Electricity Association: [http://www.electricity.ca/](http://www.electricity.ca/)
- Institute of Electrical and Electronics Engineers (IEEE) Canada: [https://www.ieee.ca](https://www.ieee.ca)

Career Services

**YOUR FUTURE STARTS HERE**

- Career Planning
- Job Search Support
- Resume Reviews
- Career Workshops
- Online Job Postings
- Career Fairs
- Networking Events
- Information Sessions & much more!

Connect with us:
MacEwan Student Centre, Room 188
T: 403.220.8020
E: csstdnt@ucalgary.ca
CareerLink: [ucalgary.ca/careers](http://ucalgary.ca/careers)

EngineerCareers.ca: [http://www.engineeringcareers.ca](http://www.engineeringcareers.ca)
Techjobs.ca: [http://www.techjobs.ca](http://www.techjobs.ca)
CareerLink: [careerlink.ucalgary.ca](http://careerlink.ucalgary.ca)

Minors, Interdisciplinary Specializations & Combined Programs

- Minor in Computer Engineering
- Minor in Entrepreneurship and Enterprise Development (MEED)
- Minor in Management and Society
- Biomedical Engineering Specialization (BMES)
- Energy and Environment Specialization (ENEE)
- Bachelor of Science in Engineering and Bachelor of Commerce combined degree

Student Clubs

- The Electrical, Computer, and Software Engineering Students' Society (ZOO): [https://zooengg.ca/](https://zooengg.ca/)

Job Boards

Indeed: [https://ca.indeed.com/](https://ca.indeed.com/)
EngineerCareers.ca: [http://www.engineeringcareers.ca](http://www.engineeringcareers.ca)
Techjobs.ca: [http://www.techjobs.ca](http://www.techjobs.ca)
CareerLink: [careerlink.ucalgary.ca](http://careerlink.ucalgary.ca)

Engineering Student Centre

Engineering Block C 205
T: 403.220.5732
E: engginfo@ucalgary.ca

Engineering Career Centre

Engineering Block C 205
T: 403.220.3089
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W: [https://schulich.ucalgary.ca/departments/electrical-and-computer-engineering](https://schulich.ucalgary.ca/departments/electrical-and-computer-engineering)