Civil engineering involves the design, construction and maintenance of almost every aspect of our man-made and natural environments. It’s a diverse field with many great opportunities. Primarily, civil engineers work on civil infrastructure, such as highways, railways, airports, transit systems, bridges, tunnels, and other structures. They are also becoming increasingly involved in biomedical projects and are playing a key role in the search for solutions to the environmental challenges that affect existing infrastructure and industries.

**Key Skills & Knowledge**

- Material properties
- Environmental engineering
- Computer skills, including use of spreadsheets, databases and computer programming to solve practical civil engineering problems
- Oral and written communication skills
- Research and design
- Teamwork and project management
- Analytical, critical thinking and problem solving skills

**Sample Job Titles**

Airport Engineer  
Appraisal Engineer  
Architectural Engineer  
Bridge Engineer  
Building Envelope Engineer  
Building Inspector  
Cartographic Engineer  
Civil Engineer  
Civil Engineering Technician  
Coastal Engineer  
Construction Engineer  
Construction Manager  
Consulting Engineer  
Dams Engineer  
Design Engineer  
Development Engineer  
Drainage Design Engineer  
Environmental Engineer  
Foundation Engineer  
Geotechnical Engineer  
Infrastructure Asset Manager Engineer  
Irrigation and Drainage 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/ocinfo](alis.alberta.ca/ocinfo)

**Potential Industries**

- Construction
- Consulting
- Environmental Protection and Rehabilitation
- Geotechnical
- Infrastructure Management
- Manufacturing
- Materials
- Municipal, Provincial and Federal Governments
- Pipelines and Petrochemicals
- Public Administration
- Research and Development
- Sewage System Management
- Structural
- Transportation
- Urban Planning
- Water Resources

**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 & Professional Development

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/)
- American Society of Civil Engineers: [http://www.asce.org/](http://www.asce.org/)
- Canadian Dam Association: [http://www.imis100ca1.ca/cda](http://www.imis100ca1.ca/cda)
- Canadian Society for Civil Engineering (CSCE): [https://csce.ca/](https://csce.ca/)
- Consulting Engineers of Alberta: [https://www.cea.ca/](https://www.cea.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)

Facebook: [ucalgary.ca/careers](http://ucalgary.ca/careers)

Twitter: @HireUCalgary

Career Boards

Indeed: [https://ca.indeed.com/](https://ca.indeed.com/)

ECO Job Board: [http://www.eco.ca/viewjobs/](http://www.eco.ca/viewjobs/)


EngineeringCareers.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 Transportation Engineering
- Minor in Structural 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

- Canadian Society for Civil Engineering (CSCE) Student Chapter [http://cscecalgary.ca/](http://cscecalgary.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
E: ecc@ucalgary.ca

W: [https://schulich.ucalgary.ca/departments/civil-engineering](https://schulich.ucalgary.ca/departments/civil-engineering)