What to do with a degree in **GEOMATICS ENGINEERING**

Geomatics engineering is a varied and exciting technology discipline that leads to careers having a great indoor/outdoor balance. It requires a combination of design, computer, and measurement skills with field work, lab experiments, and computer modelling to solve a variety of problems that have a common attribute: spatial location.

Geomatics is a profession that is in growing demand both in Canada and internationally. Exciting careers exist in both the private and public sectors.

**Sample Job Titles**

- Geodetic Engineer
- Geographic Information Systems (GIS) Engineer
- Geomatics Analyst
- Geomatics Engineer
- Geospatial Engineer
- Geospatial Software Developer
- Hydrographer
- Mapping Specialist
- Navigation Systems Engineer
- Offshore Survey Engineer
- Photogrammetric Engineer
- Pipeline Integrity Manager
- Professional Land Surveyor
- Remote Sensing Analyst
- Research Associate
- Software Engineer
- Spatial Database Architect
- Urban Planner

**Potential Industries**

- Aerospace
- Application Development/Software Programming
- Construction
- Consulting Firms
- Defense Contractors and Organizations
- Environmental Management
- Federal, Provincial and Municipal Government Departments
- Geodesy and GPS
- Geomatics, Survey or Mapping Firms
- Information Management
- Land Development
- Mining
- Ocean Mapping and Hydrography
- Oil & Gas (Upstream, Midstream, Downstream)
- Pipeline Development and Planning
- Positioning and Navigation Companies
- Precision Agriculture
- Public Administration
- Remote Sensing Companies
- Research
- Resource Extraction
- Software Development
- UAV Mapping
- Urban Planning
- Utility Companies
- Vehicle & Pedestrian Navigation

**Key Skills & Knowledge**

- Analysis of spatial problems and measurements
- Collaborative teamwork and project management
- Computer programming with engineering applications
- Design and oral, written and graphical communication
- Logical and critical thinking and problem solving

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/
- Alberta Geomatics Group: http://www.albertageomaticsgroup.ca/
- Alberta Society of Surveying and Mapping Technologies: http://www.assmt.ca/
- Association of Canada Land Surveyors (ACLS): https://www.acls-aatc.ca
- Canadian Institute of Geomatics (CIG): http://www.cig-acsg.ca/
- Engineers Canada Accreditation Board (ECAB): https://engineerscanada.ca/accreditation/accreditation-board
- Canadian Board of Examiners for Professional Surveyors (CBEPS): https://www.cbeps-cceag.ca/
- The Association of Science & Engineering Technology Professionals of Alberta: http://www.aset.ab.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

Job Boards

Indeed: https://ca.indeed.com/
ECO Job Board: http://www.eco.ca/viewjobs/
EngineerJobs.com: http://www.engineerjobs.com/
EngineeringCareers.ca: http://www.engineeringcareers.ca
Techjobs.ca: http://www.techjobs.ca
Geomatics Canada: http://gogeomatics.ca/
Canadian GIS & Geomatics Jobs: https://canadiangis.com/canadian-gis-jobs
CareerLink: careerlink.ucalgary.ca

Interdisciplinary Specializations & Combined Programs

- Biomedical Engineering Specialization (BMES)
- Energy and Environment Specialization (ENEE)
- Concentration in Cadastral Surveying
- Bachelor of Science in Engineering and Bachelor of Commerce combined degree

Student Clubs

- Engineering Students' Society (ESS): http://ess_ucalgary.com/
- Geomatics Engineering Student Society (GESS): http://www.ucalgary.ca/gess/

Additional Resources

Natural Resources Canada - Canadian Geomatics Environmental Scan and Value Study: http://www.nrcan.gc.ca/earth-sciences/geomatics/canadas-spatial-data-infrastructure/cgdi-initiatives/canadian-geomatics

Engineering Student Centre
Engineering Block C 205
T: 403.220.5732
E: engginfo@ucalgary.ca
W: http://schulich.ucalgary.ca/departments/geomatics-engineering

Engineering Career Centre
Engineering Block C 205
T: 403.220.3089
E: ecc@ucalgary.ca