What to do with a degree in

GEOLOGY

Geologists study the history, composition, and physical aspects of our planet. The entire world will be your laboratory, as geology is the most outdoor-oriented discipline of the basic sciences.

Key Skills & Knowledge

Communication skills – clearly and effectively inform, explain and instruct both the scientific and non-scientific community; prepare technical reports; write research papers and proposals

Technical – Operate technical instruments; Knowledge of Physical Methods of Exploration Relying on Gravity, Magnetism, Electrical Conductivity, Seismic Shock Wave Velocities

Specialized Skills – Field mapping, core logging, data integration and visualization, microscopy

Problem solving skills; approaching topics and problems from various perspectives; understanding the components of complex problems; analyzing multiple dimensions of a problem; identifying problems and developing solutions

Proficiency in mathematics; mathematical modeling; Concrete & abstract mathematical Concepts

Research skills; data collection; process and synthesize vast amounts of data and apply where relevant; define research problems; develop research models and proposals Conducting Field Observations & Taking Appropriate Measurements

Sample Job Titles

Agricultural Consultant
Agrogeologist
Assayer
Astrogeologist
Cartographer
Climatologist
Energy Policy Program Advisor
Environmental Quality Specialist
Exploration Geologist
Geodesist
Geodynamicist
Geographer
Geomorphologist
Geophysicist
Geoscientist
Geostatistician
Groundwater Technologist
Health Inspector
Hydrogeologist
Hydrologist
Industrial Waste Inspector
Lobbyist
Materials Analyst
Mineralogist
Mining Consultant
Paleontologist
Park Naturalist/Ranger/Forrestor
Petroleum Geologist
Petrologist
Pollution Control Specialist
Science Museum Educator
Instrumental Technician
Lobbyist
Materials Analyst
Mineralogist
Mining Consultant
Paleontologist
Park Naturalist/Ranger/Forrestor
Petroleum Geologist
Petrologist
Pollution Control Specialist
Science Museum Educator

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

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.

- Alberta Women's Science Network (AWSN) and Mentorship Program: awsn.org
- Association of Professional Engineers, Geoscientists of Alberta (APEGA): apega.com
- Calgary Mineral Exploration Group (MEG): megcalgary.com
- Canadian Association of Geographers: cag-acg.ca/en
- Canadian Council of Professional Geoscientists: geoscientistscanada.ca
- Canadian Geophysical Union (CGU): cgu-ugc.ca
- Canadian Federation of Earth Sciences: cfes-fcst.ca
- The Canadian Geotechnical Society: cgs.ca
- Canadian Society of Exploration Geophysicist (CSEG): cseg.ca
- Canadian Society of Petroleum Geologists (CSPG): cspg.org
- Geological Association of Canada: gac.ca
- Mineralogical Association of Canada (MAC): mineralogicalassociation.ca
- The Natural Sciences and Engineering Research Council of Canada (NSERC): nserc-crsng.gc.ca
- Palliser Club: palliserclub.com
- Prospects and Developers Association of Canada: pdac.ca
- UCalgary Geophysics Mentorship Program: geoscience.ucalgary.ca/undergraduate/current_students/goph_mentorship
- UCalgary Geoscience Alumni Association: ucalgary.ca/geoalum

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

Indeed: https://ca.indeed.com/
Science Careers: jobs.sciencecareers.org/
Eco Canada: eco.ca
EarthWorks-Job: earthworks-jobs.com/
GeoSearch: geosearch.com
NewScientist: jobs.newscientist.com
LinkedIn: www.linkedin.com
CareerLink: careerlink.ucalgary.ca

Additional Resources
Great Jobs for Geology Majors, Blythe Camenson
Careers for Environmental Types & Others Who Respect the Earth, J. Kinney & M. Fasulo
Careers in Science, Easton
Guide to Non-traditional Careers in Science by Kreeger, Karen Young

Faculty Contact
Earth Science 118
T: 403.220.5184
E: geoscience@ucalgary.ca
W: geoscience.ucalgary.ca
W: ucalgary.ca/admissions/programs

Student Clubs
Rundle Group of Geology
ucalgary.ca/rundle/
Aligned Majors
Earth Sciences, Geography, Geophysics