Earth Science, as the name implies, is the study of the Earth. It not only involves the study of the materials that make up the Earth, but also the natural and human processes that shape the landscape. Clearly, many of the environmental issues facing our planet are related to the interaction between natural systems and our society. Problem solvers of the future will be required to address both the natural and societal impacts of these problems and their solutions.

**KEY SKILLS & KNOWLEDGE**

**Analytical and critical thinking** - Design experiments; develop theories; synthesize complex information; creative thinking; problem solving skills; decision making skills

**Oral and written communication skills** - presenting and communicating technical and scientific data and ideas clearly and articulately to both the scientific and non-scientific communities using current technology; Scientific and technical writing; Memorize large amounts of information

**Organization and attention to detail** - Independent worker, ability to meet deadlines; Inspect specimens; demonstrate precision and accuracy in data collection and observation; Data, time and resource management;

**Research** - Analyze and evaluate information; interpretation of trends from results; gather and access data

**Technical** - Perform laboratory procedures; Dissect preserved or euthanized specimens; Observe and make measurements on organisms; Administration of biological tests; Collect and preserve field organisms

**SAMPLE JOB TITLES**

Aeronaautical Cartographer  
Air Quality Specialist  
Cartographer  
Conservation Officer  
Development Planner  
Environmental Assessment Officer  
Environmental Consultant/Planner  
Field Project Coordinator  
Geographic Information Systems (GIS) Technician  
Geomatics Analyst/Technologist  
Hazardous Materials Consultant  
Hazardous Waste Inspector  
Historical Consultant  
Hydrologist  
Land Planner  
Land Registration Officer  
Land Survey Technologist  
Materials Analyst  
Meteorologist  
Mineralogist  
Mining Industry Technician  
Park Naturalist  
Parks & Recreation Coordinator  
Pollution Control Inspector  
Researcher/Research Assistant  
Resource Technician  
Soil Scientist  
Surveyor  
Teacher / Professor  
Technical Writer

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)

**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**

Need help deciding what to do?
**Potential Industries**

- Agriculture
- Atmospheric Monitoring
- Biotechnology
- Conservation
- Education
- Environment & Pollution
- Food & Beverage
- Manufacturers
- Geomatics
- Global Change Forecasting
- Government
- Hospitals & Medical Centres
- Hydrology/Water Resources
- International Development
- Land Reclamation
- Medicine & Health Organizations
- Mapping & Cartography
- Resource Exploration
- Museums
- National or Provincial Parks
- Natural Resources
- Non-Profit & NGOs
- Pharmaceuticals
- Post-Secondary Institutions
- Research Institutions
- Technical Writing
- Testing Laboratories
- Writing
- Zoos & Aquariums

**Associations & Professional Development**

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): [awsn.org](http://awsn.org)
- Association of Science and Engineering Technology Professionals of Alberta: [aset.ab.ca](http://aset.ab.ca)
- Canadian Association of Geographers: [cag-acg.ca](http://cag-acg.ca)
- Canadian Federation of Earth Sciences: [cfes-fcst.ca/](http://cfes-fcst.ca/)
- Canadian Geophysical Union (CGU): [cgu-ugc.ca](http://cgu-ugc.ca)
- Canadian Society of Exploration Geophysicist (CSEG): [cseg.ca](http://cseg.ca)
- Canadian Society of Petroleum Geologists (CPSG): [cspg.org](http://cspg.org)
- Geological Association of Canada: [gac.ca](http://gac.ca)
- Geoscientists Canada: [geoscientistscanada.ca](http://geoscientistscanada.ca)
- Mineralogical Association of Canada (MAC): [mineralogicalassociation.ca/](http://mineralogicalassociation.ca/)
- Rundle Group of Geology: [ucalgary.ca/rundle](http://ucalgary.ca/rundle)
- Society for Canadian Women in Science & Technology: [www.scwist.ca](http://www.scwist.ca)
- The Canadian Geotechnical Society: [cgs.ca](http://cgs.ca)

**Additional Resources**

- Careers for Environmental Types & Others Who Respect the Earth, Jane Kinney & Michael Fasulo
- Environmental Jobs for Scientists and Engineers, Nicholas Basta
- Geology and the Earth Sciences, Katherine Ericson

**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: csstnt@ucalgary.ca  
CareerLink: [ucalgary.ca/careers](http://ucalgary.ca/careers)

LinkedIn: [www.linkedin.com](http://www.linkedin.com)

CareerLink: [careerlink.ucalgary.ca](http://careerlink.ucalgary.ca)

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

Science Careers: [jobs.sciencecareers.org/](http://jobs.sciencecareers.org/)

Eco Canada: [eco.ca](http://eco.ca)

**Job Boards**

**Faculty Contact**

Earth Sciences 356  
T: 403.220.8929  
E: earthsci@ucalgary.ca  
W: ucalgary.ca/earthsci/  
W: ucalgary.ca/admissions/programs

**Student Clubs**

Palliser Club  
palliserclub.com

**Aligned Majors:**

Ecology, Geology, Geography