



Career Options after

# Environmental Geoscience

the study of earth's geological systems

[www.utsc.utoronto.ca/physsci](http://www.utsc.utoronto.ca/physsci)

Specialist

## What is Environmental Geoscience?

**Environmental Geoscience**, a Physical Science, is the scientific study of planet Earth, its origins and its 4 billion years long geological history. It examines the plate tectonic and other geologic processes that have shaped the world's continents and oceans and help form and change physical landscapes. It also investigates the effects of human activity on geological systems and landscapes, lessening the impacts of the extraction of natural resources, environmental planning, protection and management of water resources and the clean-up of polluted sites.

## Skills of Environmental Geoscience Grads

- Design and/or conduct laboratory and field research including data collection and interpretation, and report writing
- Identify/apply qualitative and quantitative approaches for environmental impact assessments and audits or remediate polluted sites
- Consider environmental policies and principles when making environmental decisions
- Communicate, orally and in writing, understanding of geoscience principles and practice
- Engage in team-based research, analysis and problem solving
- Apply techniques in Geographic Information Systems (GIS) to solve scientific problems

## What makes Environmental Geoscience at UTSC unique?

This program meets the requirements of the Association of Professional Geoscientists of Ontario (APGO): [www.apgo.net](http://www.apgo.net). Graduates of Specialist programs are also eligible to receive their Environmental Professional in Training (EPT) designation for environmental professionals: [www.eco.ca/accreditation](http://www.eco.ca/accreditation). Environmental Geoscientists are in high demand in a rapidly changing world.

## Entry-Level Jobs for Bachelor Grads

Common employment destinations include:

- Professional Geoscientist in Energy and Resource Industries
- Environmental Geoscientist
- Planning Departments and Public Policy
- Water Management and Consulting
- Geoscience Support in IT and Consulting Services
- Remediation of Polluted Sites
- Environmental Compliance and Performance
- Geological Engineering
- Environmental Protection
- Graduate research in geoscience (M.Env.Sc and Ph.D)

The Career Directory: [www.canadastop100.com/tcd](http://www.canadastop100.com/tcd)

## Graduate & Professional Studies

Popular further education opportunities include the following topics at both the masters and doctoral levels:

- Geoscience
- Environmental Science
- Sustainability Management
- Engineering
- Environmental Management
- Geographic Information Systems

### Use LinkedIn!

UTSC Environmental Geoscience graduates are working in Industry, Government, Biotechnology, Research, Education, and Operations.

Attend our LinkedIn workshop to learn about the *Find Alumni* tool!

### Environmental

Geoscience Grads from UTSC have gone on to:

- Environmental consulting companies
- Oil, gas and mining companies
- Urban planning Departments
- Environmental Ministries



## Examples of Fields that 'Fit' the Skills of Environmental Geoscience Grads

- Environmental Consulting
- Private/Public Research and Development
- Education
- Environmental Protection and Mitigation
- Resource industries both in Canada and world-wide
- Environmental Engineering Government (Municipal, Regional, Provincial, Federal)
- Natural hazard assessment

## Your 4-Year Career Exploration Action Plan

### 1 Do Your Research

The databases below provide you with details about job prospects, nature of work, educational requirements, working conditions, pay and related career paths:

**Career Cruising:** Log into [cln.utoronto.ca](http://cln.utoronto.ca), click on Resources, and click on Career Cruising to be logged in automatically

**O\*Net:** [online.onetcenter.org](http://online.onetcenter.org) (U.S. site)

Attend our workshop **Discover Your Skills and Career Options**, meet with a Career Counsellor, and use our resources to get to know your skills, values, personality and interests:

[www.utsc.utoronto.ca/aacc/get-know-yourself](http://www.utsc.utoronto.ca/aacc/get-know-yourself)

Use the advice on our tip sheets for gathering info: [www.utsc.utoronto.ca/aacc/tipsheets](http://www.utsc.utoronto.ca/aacc/tipsheets)

- Information Interviews
- Working On-Campus
- Internships
- Volunteering

### 3 Build Your Network

Explore **Professional Associations** and get involved: volunteer for their events and conferences, and get to know people in your industry of interest.

Environmental & Physical Sciences Student Association - [www.myepsa.ca](http://www.myepsa.ca)

Geological Association of Canada - [www.gac.ca](http://www.gac.ca)

Prospectors and Developers Association of Canada - [www.pdac.ca](http://www.pdac.ca)

Geological Society of America - [www.geosociety.org](http://www.geosociety.org)

Canadian Geophysical Union - <http://cgu-ugc.ca>

International Association of Hydrologists - <https://iah.org>

Association of Professional Geoscientists of Ontario - [www.apgo.net](http://www.apgo.net)

Ontario Environment Industry Association - [www.oneia.ca](http://www.oneia.ca)

Ontario Geoscience Resource Network - [www.ontariogeoscience.net](http://www.ontariogeoscience.net)

### 2 Explore Options & Get Experience

Gain exposure to your options in the world of work and make connections while you're a student via campus events and programs listed on [cln.utoronto.ca](http://cln.utoronto.ca) and [ccr.utoronto.ca](http://ccr.utoronto.ca):

- [Extern Job Shadowing](#)
- [In the Field](#)
- [Explore It!](#) (course-based)
- [Partners in Leadership](#) (4<sup>th</sup> year students)
- [iLead, uLead, weLead](#) (Dep't of Student Life)
- Employer Information Sessions
- Career & Volunteer Fairs
- [Departmental Student Association](#) Events

Apply for [Work Study](#) jobs on CLN in the Fall and Spring! You might also find work via [www.scsu.ca/jobs](http://www.scsu.ca/jobs).

Find networking opportunities, internship programs and entry-level jobs via websites like [www.talentegg.ca](http://www.talentegg.ca) and [www.charityvillage.ca](http://www.charityvillage.ca).

As an upper year student (14+ credits), attend UTSC's [Get Hired Conference](#) and participate in [Jobs for Grads](#).

As a graduate, explore internships and other trainee programs like [www.careeredge.ca](http://www.careeredge.ca)