



# Environmental Science

## Facts about an Environmental Science Degree:

- Environmental Science is an interdisciplinary program that's of interest to students who want to develop scientific solutions to environmental problems. Students in this program often have strong quantitative skills and interest and aptitude in biological and chemical sciences.
- The program strongly emphasizes experiential learning and offers a variety of field courses.
- The Environmental Science degree programs are accredited by the Canadian Environmental Accreditation Commission and strive to meet human resource demands for the environmental industry, as outlined by the Environmental Careers Organization (ECO) of Canada. Students are also prepared for ECO Canada's Environmental Practitioner (EP) certification.
- A Co-operative Education Option is available to students registered in either the Major or Honours degree programs in Environmental Science. Co-op is an arrangement whereby students spend alternating periods in university and employment.

## Areas of Employment

- Environmental consulting firms
- Municipal, provincial & federal government Conservation districts
- Energy & utility companies
- Analytics firms
- Parks & outdoor recreation agencies
- Forestry sector
- Wildlife, fisheries, and ecosystem management organizations
- Mining companies
- Environmental education centres
- Manufacturing & retail companies
- Agricultural companies & agencies
- Engineering, architecture & land use planning firms





# What Can I Do with an Environmental Science Degree?

## Sample Job Titles

Program graduates are prepared to work in all three environmental sectors: Environmental Protection, Resource Management, and Environmental Sustainability. ***Qualification for positions is often determined by a combination of course selection, skills and employment history.***

- Environmental impact/assessment analyst
- Remediation/reclamation specialist
- Environmental consultant\*
- Environmental project coordinator
- Environmental health & safety specialist
- Pollution prevention specialist
- Environmental compliance/regulatory specialist
- Environmental field specialist
- Sustainability Coordinator
- Fisheries/Wildlife/Ecosystems specialist
- Resource management specialist
- Naturalist/Park interpreter

- Environmental Research assistant
- Water quality specialist
- Environmental educator
- Regional conservation assistant
- Recycling coordinator
- Environment officer
- Environmental policy analyst\*
- Waste management specialist/auditor
- Environmental Advisor/Specialist
- Greenhouse Gas (GHG) auditor
- Watershed manager
- Green products specialist
- Environmental planner
- Pesticide regulator/risk assessor
- Environmental Management Systems (EMS) analyst

\* This job may require additional education, specific coursework, technical training, or a graduate degree.

## Skills Possessed by Environmental Science Graduates

Many employers are interested in the skills possessed by Environmental Science majors. Environmental knowledge and practice taught within the program meets the requirements for the Canadian Environmental Certifications Approvals Board. Depending on the Focus Area taken, graduates will have the ability to:

- Understand the interconnection between environmental systems and need for environmental sustainability
- Identify meaningful environmental problems, hazards and risks, and conduct environmental assessments, site remediation, and reclamation
- Collect environmental data and samples; interpret and analyze data by employing appropriate statistical tools and GIS technology
- Understand environmental legislation and develop environmental policies, programs, measures, and standards
- Critique and assess research findings and think critically using the best available scientific evidence
- Understand the fate and effects of contaminants in the environment

## Resources

**University of Manitoba Career Services** - Check our website at: [www.umanitoba.ca/student/careerservices](http://www.umanitoba.ca/student/careerservices)  
Click on "**Career Connect**" and register as a Student to view current job postings

**University of Manitoba Exploring Occupations**

<https://umanitoba.ca/career-services/career-planning/explore-occupations>

**Environmental Careers Organization Canada** | [www.eco.ca](http://www.eco.ca)

**Manitoba Environmental Industries Association (MEIA)** | [www.meia.mb.ca](http://www.meia.mb.ca)

**Work Cabin: Canada's Outpost for Environmental Jobs** | [www.workcabin.ca](http://www.workcabin.ca)

**GoodWorkCanada** | [www.goodworkcanada.ca](http://www.goodworkcanada.ca)

**Environmental Career.com** | [www.environmentalcareer.com](http://www.environmentalcareer.com)