

Bachelor of Science

Environmental Sciences



ABOUT THE PROGRAM

The Bachelor of Science in Environmental Science program at the University of Guelph is unique in that it is comprised of several disciplines all of which help address environmental problems. This distinct degree program ensures that you will gain the expertise needed to deal with scientific environmental issues within a socio-economic perspective and trains you to solve the complex environmental problems that government, industry, and society are currently addressing. In this program, there are 4 majors, all of which have a co-op option:

- **Ecology**
- **Environment & Resource Management**
- **Environmental Economics & Policy**
- **Environmental Sciences**

WHY CO-OP?

As a co-op student, you will gain relevant work experience, build professional networks, and develop essential interpersonal skills needed to succeed in the workplace; all while being paid and earning your university degree. Guelph's co-op program is unique due to the exceptional level of support provided, including an online preparatory course, a personal connection with a Co-op Co-ordinator to assist you during the employment process, and access to senior student mentors.

COURSE SEQUENCING

In the Environmental Science co-op program, you will participate in three to four co-op work terms in addition to eight academic semesters throughout your five years at the University of Guelph. This sequencing is viewable below:

YEAR	FALL	WINTER	SUMMER
ONE	Academic	Academic	Off
TWO	Academic	Work	Academic
THREE	Work	Academic	Work
FOUR	Academic	Academic	Work
FIVE	Academic		



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SAMPLE JOBS

There is a diverse selection of jobs made available to Environmental Sciences co-op students, in the academic, government, and private sectors. Students may conduct research, perform environmental assessments or work to resolve environmental problems, and may work in a laboratory, in the field, and/or in an office setting. Below are some examples of past positions held by Environmental Science co-op students:

Student Environmental Technician In this role, students assist with environmental monitoring and urban watershed management, which includes collecting water samples from various locations, assisting in field investigations, and analyzing, evaluating, and interpreting environmental field data. Students will also be involved in environmental education and outreach programs.

Assistant Evaluator Duties include assisting evaluators in preparing ecological risk assessments for some substances. This work may include literature searches, maintenance of reference libraries, data tabulation, utilizing modelling programs to generate data, evaluating the quality of studies, data analysis, and drafting written summaries of this information.

Soil Physical Quality Assistant You will be involved in field and laboratory work associated with several research studies focused on evaluating the impacts of soil, crop and land management practices on soil and environmental quality. In-situ soil measurements and soil samples will be collected from various field sites, and these measurements and samples will be compiled, prepared, processed and analyzed in the laboratory.

Additional Sample Jobs: Horticulture Assistant, Field Biologist, Plant Science Research Assistant, Junior Project Analyst, Species at Risk Recovery Officer, and more.

SAMPLE EMPLOYERS*

- Conservation Authorities, Municipalities
- Environment Canada
- Ontario Ministry of Agriculture, Food, and Rural Affairs
- Ministry of the Environment and Climate Change
- University of Guelph

*This shows a sample of recent co-op employers, and employers will vary depending on employer recruitment needs. During a job search, students are encouraged to be actively engaged and are also supported in establishing and maintaining their own personal contacts.

SALARY INFORMATION Average Weekly Salary Range: \$577 - \$598*

*Salary ranges are shown as rates before deductions. Statistics are based on jobs held by co-op students in 2016. These ranges may fluctuate on an annual basis in response to economic conditions.

ABILITIES & KNOWLEDGE ACQUIRED

- Broad-based knowledge and understanding in a number of scientific disciplines
- In-depth knowledge and understanding in a particular scientific area
- An understanding of various disciplines and their effect on environmental issues
- Management and decision-making skills for the application of scientific knowledge to environmental problems, and the evaluation of appropriate environmental policies
- Excellent oral and written communication skills

