

Bachelor of Engineering

Environmental Engineering



ABOUT THE PROGRAM

Environmental Engineering at the University of Guelph draws on the traditional disciplines of chemical, civil and mechanical engineering to deliver a truly unique program. This comprehensive program equips students with the ability to understand and resolve practical problems that encompass air, water, soil and waste. In the classroom, lab and field you will develop skills in design, project management and the ability to communicate effectively in a professional workplace.

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 getting paid and earning your university degree. Guelph's co-op program is unique due to the exceptional level of support provided throughout the co-op experience. Students will complete a comprehensive course preparing them for the co-op employment process, and will receive guidance from a knowledgeable team of staff dedicated to their development and success.

COURSE SEQUENCING

In the Environmental Engineering co-op program, you will participate in five 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	Academic	Work
THREE	Academic	Work	Work
FOUR	Academic	Academic	Work
FIVE	Work	Academic	

SAMPLE JOBS

Below are some examples of past Environmental Engineering co-op positions.

Environmental Engineering Co-op Student

In this role, you will develop data tracking methods to promote awareness and encourage reduction opportunities within the company. You will also be required to follow up on energy projects, track rebates, and ensure maximum return for hydro, gas and water projects. Additional duties include researching potential composting alternatives and waste reduction options for departments.

Research Assistant

During your eight-month work term, you will be responsible for sampling sediments in the field from a boat or ship and will assist in evaluating the field collected sediment in the lab for standard properties. In addition, you will be required to conduct literature searches and prepare Power Point presentations. Data entry, processing and analysis support are key aspects of this job.

Air Quality Student

As an Air Quality Student, you will perform technical work on the fields of environmental compliance and reporting. You will assist in field work in support of air, noise, and water services including collection of air flow, sound level, and water quality readings. Other projects include developing emission models for industrial facilities to assist with modeling chemical discharges emission inventories. Applicants must have a valid driver's license.

SAMPLE EMPLOYERS*

- Environment and Climate Change Canada
- RWDI
- WSP
- Various Regional Municipalities and Conservation Authorities

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

SALARY INFORMATION

Students receive compensation from their employer for co-op work terms. The rate of pay will vary depending on a number of factors including the industry, the student's program of study, and work term level. For your reference, a **Co-operative Education Salary Guide** is available on our website, which provides hourly rates (averages and ranges) for each degree program.

SKILLS & KNOWLEDGE ACQUIRED

- Knowledge of fundamental engineering concepts, as well as physical, chemical and biological sciences
- Experience writing formal reports including proposals, engineering design reports and technical laboratory reports
- Effective problem solving, communication and teamwork skills developed from participation in group design projects
- Solid understanding of a variety of modeling and design software
- Exposure to a variety of field, laboratory and office work in a variety of employment sectors