ABOUT THE PROGRAM

Chemistry is the study of the structure and behaviour of molecules. This includes the construction of molecules with specific properties for use in areas such as pharmaceuticals and agrochemicals. You will also focus on the determination of trace chemicals in the environment using techniques for separation and spectroscopic analysis and the design of new materials for the microelectronics industry. Your learning will be facilitated by Guelph’s award winning faculty in chemistry, electro-chemistry, toxicology, biochemistry and spectroscopy.

WHY CO-OP?

As a co-op student, you’ll 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, including an in-class preparatory course, a personal connection with a Co-op Coordinator to assist you during the employment process, and access to senior student mentors.

COURSE SEQUENCING

In the Chemistry co-op program, you will participate in 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:

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<tr>
<th>YEAR</th>
<th>FALL</th>
<th>WINTER</th>
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<td>ONE</td>
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SAMPLE JOBS
There is a diverse selection of jobs made available to Chemistry co-op students, in both the government and private sectors within the pharmaceutical, biomedical, agricultural, and various other industries. You may conduct research, work in public health in a clinical setting, and may work in a laboratory, a hospital, and/or in an office setting. Below are some examples of past positions held by Chemistry co-op students.

R&D Intern
In this role, you will be responsible for supporting product development and raw product analyses related to production in a growing clean-technology company. Duties may include assisting in developing test protocols, sourcing chemical supplies, analyzing product material, and assisting in developing product specifications.

Student Scientific Officer
You will conduct research and analyze data from a variety of sources, such as survey results, analytical data, scientific journals and chemical profiles. With attention to risk management objectives, you will perform background research on the life cycle of a given substance. You may also participate in the organization of events and develop documents, technical presentations, and briefing materials.

Project Technologist
At a leading environmental firm’s olfactory lab, you will take on tasks such as scheduling assessors, maintaining equipment, leading analysis sessions, and preparing reports. You will also prepare drawings, summarize data, calculate emissions, and submit annual environmental reports and approval applications. You will be required to professionally represent the company at all times, while adhering to proper quality control and safety protocols.

Additional Sample Jobs: Quality Assurance Specialist, Electrochemistry Researcher, Chemical Laboratories Analyst, Pharmaceutical product development work, and more.

SAMPLE EMPLOYERS*
- Environment Canada
- McNeil Consumer Healthcare
- GE Water and Process Technologies
- Xerox Research Centre

*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: $587 - $620*
*Salary ranges are shown as rates before deductions. Statistics are based on jobs held by co-op students in 2015. These ranges may fluctuate on an annual basis in response to economic conditions.

ABILITIES & KNOWLEDGE ACQUIRED
- Sound knowledge of the theoretical foundations of the chemical sub-disciplines of analytical, inorganic, organic and physical chemistry
- Practical laboratory experience in wet bench chemistry including inorganic and organic synthesis, quantitative analysis and analytical instrumentation
- Well-developed problem solving and computer literacy skills
- Strong communication and teamwork abilities