Our Program

The Bachelor of Engineering degree at the University of Guelph offers a non-departmentalized program that introduces students to the multidisciplinary nature of engineering. Students choose from a combination of traditional and non-traditional engineering disciplines and benefit from the integration of design and teamwork throughout their program. Our program disciplines are:

- Biological Engineering
- Biomedical Engineering
- Computer Engineering
- Environmental Engineering
- Mechanical Engineering
- Water Resources Engineering
- Engineering Systems and Computing

University of Guelph Advantage

- Students begin their first work term after completing two years of their program and mastering the core competencies needed to integrate readily into the workplace.
- Each year, students undertake a design-intensive multidisciplinary course that focuses on collaboration and project management.
- Students are available for two, eight month work terms in their third and final year. Please refer to chart below.

Recruitment Timelines: Our co-op program functions on an ongoing basis with job postings accepted throughout the semester. We encourage employers to post at the beginning of our recruitment cycle to ensure a large pool of candidates. Employers can begin posting in May for a September start date; in September for a January start date; and January for work terms beginning in May.

Academic / Co-op Sequencing

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<th>YEAR</th>
<th>FALL</th>
<th>WINTER</th>
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For more information regarding specific disciplines, please visit our website at www.recruitguelph.ca
Our Disciplines

Biological Engineering

Biological Engineering students combine their knowledge of life sciences with engineering principles to design and control biological processes and systems. They work independently and in multi-disciplinary teams, with the aim of enriching our lives and maintaining a sustainable environment.

Biomedical Engineering

Biomedical Engineering students combine their knowledge of life sciences with engineering principles to the design, development, and application of electronic and biomedical devices to improve human health. Students who study biomedical engineering help meet the growing need for the application of mechanics, materials and physiology to develop devices such as prosthetics and implants and for investigative instruments and technologies.

Computer Engineering

Computer Engineering fuses computer science with electrical engineering to develop systems and solutions for the technological industry. This program provides students with a strong engineering foundation and prepares them to work where hardware and software meet. Computer Engineering focuses on the science and tools behind designing, constructing, implementing and maintaining software and hardware components of modern computing systems.

Engineering Systems & Computing

Engineering Systems and Computing is a multi-disciplinary field that combines the fundamentals of engineering with computer hardware and software knowledge. It is the only program of its kind in Canada that focuses on designing integrated computer based engineering systems. Students develop a unique systems perspective making them a valuable addition to any workplace where there is a need to incorporate computers and information into complex industrial processes.

Environmental Engineering

Environmental Engineering draws on the traditional disciplines of chemical, civil and mechanical engineering to deliver a truly unique program. This comprehensive program equips students to understand and resolve practical problems that encompass air, water soil and waste. Students also develop technical strengths in design, project management and the ability to communicate effectively to stakeholders at all levels.

Mechanical Engineering

Mechanical Engineering at the University of Guelph offers a unique knowledge combination in the most fundamental of engineering disciplines. The focus on design, multi-disciplinary teamwork and communication produces specialists who incorporate engineering into opportunities in the fields of sustainable energy, mechatronics, manufacturing system design and biomechanics. The program is built around concepts of sustainability and sustainable design to equip students to tackle these issues in the workplace.

Water Resources Engineering

Water Resources Engineering students learn approaches to manage our water and land resources to ensure adequate clean water is available. They also design solutions to mitigate the effects of human activities on our water resources and to protect communities from floods and droughts. In the classroom and in the field our co-op students learn to identify and evaluate watershed management options to protect and restore our groundwater, rivers and lakes.

Engineering Co-op Team

For further details or to discuss your recruitment strategy, please contact us:

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