

## Computer Science at Trent

Society is in the midst of a technology revolution, which is fueled by the advancement of knowledge in computing. Students in the Computer Science program will bring the tech of tomorrow to life as they design, implement and integrate software applications for devices from supercomputers to game boards, and prepare for careers that blend technologies like databases, networks, and telecommunications, with elements of ethics, law and culture in the ever-changing tech sector.

Co-op education combines academic instruction and practical experience, allowing students to develop work skills and gain experience while obtaining a formal education. The Computer Science Co-op program consists of eight academic (study) terms interspersed with three paid, 4-month work terms. Employers supervise co-op students and evaluate their performance, and Trent’s Co-op Team will monitor students’ progress on the job.

## Why Trent Co-op?

Co-op is an opportunity for students to gain work-integrated experiential learning that will help them get a head start on their career. The Software Engineering Co-op program assists graduating students in achieving a competitive edge while generating experience within a wide range of sectors. Specifically, co-op gives the students a chance to obtain 12 months of practical experience on the job, develop or enhance technical skills, explore career options, network with a variety of individuals and organizations, learn from mentors, enhance communication and presentation skills, and develop technical writing skills.

### Computer Science Co-op Work Term Schedule

	Fall	Winter	Summer
Year 1	Study Term 1	Study Term 2	Study Term 3
Year 2	Work Term 1	Study Term 4	Work Term 2
Year 3	Study Term 5	Study Term 6	Work Term 3
Year 4	Study Term 7	Study Term 8	

### Benefits of Hiring a Computer Science Co-op Student

- Meet short-term hiring needs cost effectively and/or help staff special projects.
- Provide coverage during vacation periods, maternity leaves, and peak workload times.
- Fill knowledge and skill gaps.
- Build your brand and expand the profile of your organization.
- Establish relationships with potential future employees.
- Claim the Ontario Co-operative Education Tax Credit (CETC) (more information below).

## Skills Developed in Computer Science

- Ability to see a bigger picture & to exploit the inter-relationships among systems for competitive advantages
- Coding using C#, HTML/CSS, Java, Python, SQL
- Conduct technical feasibility studies
- Data Analysis and Data Visualization
- Evaluate software/systems design
- Integrate different approaches to system design
- Knowledge of common Operating Systems
- Knowledge of theoretical and applied aspects of computer science
- Software roll-out and future upgrade planning
- Solid foundation in the science and methodologies of computation and databases
- Strong analytical, technical and programming abilities
- Testing/Analyzing/Debugging software

## Employer Wage Subsidies

Through the [Student Work Placement Program](#), co-op employers are eligible to apply for wage subsidies through one of the following funding recipients:

- [Biotalent Canada](#)
- [Canadian Agricultural Human Resources Council](#)
- [Canadian Media Producers Association](#)
- [Cultural Human Resources Council](#)
- [ECO Canada](#)
- [Electricity Human Resources Canada](#)
- [Excellence in Manufacturing Consortium](#)
- [FCCQ](#)
- [Food Processing Skills Canada](#)
- [Information and Communication Technology Council](#)
- [Magnet Student Work Placement Program](#)
- [Ontario Chamber of Commerce](#)
- [Technation](#)
- [Tourism HR Canada](#)
- [Trucking HR Canada](#)
- [Venture for Canada](#)



Hiring students in Computer Science Co-op could earn you a credit of up to \$3,000 through the [Ontario Co-operative Education Tax Credit](#).

Co-op employers post their positions on the [Student Experience Portal](#). Through this platform, students apply to positions, employers view applications, invite candidates to interviews, and complete work term evaluations. To create an employer account on the portal, visit [trentu.ca/sep](http://trentu.ca/sep)