

COMPUTER PROGRAMMER (2 YEARS/COPR) COMPUTER PROGRAMMER ANALYST (3 YEARS/COPA)

What is Co-operative Education?

It is a system of education blending career goals with college academic studies to enhance students' skills through real and relevant industry experience. Students enrolled in co-op programs alternate and sequence their academic terms with work experience.

Co-operative education is a three-way partnership of employers, students and educational institutions that has benefits for all participants.

Students gain valuable work experience. Employers benefit from highly motivated students who are available for special projects and peak workload periods. Georgian College enhances its reputation for providing career-oriented applied education.

Benefits of Hiring Co-op Students

- Reduces your labour costs
- Your company may be eligible for an Ontario Co-operative Education Tax Credit of up to \$3,000 per student per work term
- Students bring fresh ideas and new technical knowledge and terminology to the workplace
- Students free up permanent staff for more complex tasks, new projects or vacation
- Assists with your succession planning
- Allows you to assess students for their ability, dependability and aptitude as potential full-time employees
- We have a streamlined process for employers to post co-op opportunities, go to:

<https://careerandcoop.georgiancollege.ca>

Program Highlights

Computer Programmer students seek work experience in many types of businesses, as application or web developers, junior programmers, database development and other entry-level opportunities. Students can work in either distributed or centralized computing environments.

Computer Programmer Analyst students seek similar work experience, with the addition of enterprise programming, but with additional responsibility. Students with networking interests/skills seek employment as data communications and/or technical support specialists and in network administration.

The following courses are completed prior to students entering their first work experience:

- Computer Organization and Architecture
- Relational Database Design and SQL
- Introduction to Java
- Web Authoring Fundamentals (HTML, CSS, and PHP)
- Introduction to Web Programming
- Mathematics for the Computer Industry
- Systems Analysis
- Written and Oral Business Communications

When are Students Available?

Students are available for co-op work terms at various times of the year. Most start at the beginning of May, September and January and are typically four months in length; some have five or eight month work terms depending on the program.

Co-op Student Competencies

Students are capable of reliably demonstrating the following learning outcomes:

Computer Programmer

Work Term 1 (May to August)

- Designing and creating dynamic websites using HTML, CSS, PHP, and MySQL
- Program small-scale embedded Arduino devices.
- Working with a relational database system (MySQL)
- Designing and creating programming solutions in Java
- Creating and editing datasets on a mainframe running IBM zOS

Work Term 2 (January to April)

- Designing and creating visual applications using .NET, Java and JavaScript
- Designing database systems
- Principles of Project Management
- Creating jobs and submitting them for execution using JCL on a mainframe running IBM zOS
- Demonstrating an awareness of organizational and team behaviour

Computer Programmer Analyst

Work Term 3 (September to December)

- Analyzing business problems and suggesting possible solutions
- Analyzing business problems and suggesting possible solutions
- Designing and creating enterprise level applications
- Functioning as a contributing member of a team involved in the design of enterprise level computing solutions
- Working within a zOS IBM mainframe environment
- Participating in the planning and management of projects

Our Graduates

After completing their final academic semester students are then capable of:

- Completing all work in compliance with relevant policies, practices, processes, and procedures
- Participating as an effective individual and member of a team
- Interpreting, producing, and presenting work-related documents and information effectively and accurately
- Identifying and implementing strategies to improve job performance and promote personal and professional growth

Co-op Consultant Contact Information

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Co-operative Education Tax Credit

The Co-operative Education Tax Credit (CETC) is a refundable tax credit available to employers who hire students enrolled in a recognized Ontario College or university co-operative education program.

The Canada Revenue Agency (CRA) administers the program on behalf of Ontario through the federal income tax system.

Benefits for employers

- An eligible employer may claim a refundable tax credit for each qualifying work placement ending in the taxation year.
- The CETC reimburses employers 25% of eligible expenditures. Smaller businesses are eligible for a higher credit rate of 30%.
- The maximum credit for each qualifying work placement is \$3,000. Most work placements are for a minimum employment period of 10 weeks up to a maximum of four months.

Eligible expenditures made by a business in respect of a qualifying work placement are

- Salaries and wages including taxable benefits paid or payable to the student in respect of the qualifying work placement at an Ontario permanent establishment (place of business)
- Fees paid or payable to an employment agency in respect of the qualifying work placement for the services of a student carried out primarily at an Ontario place of business

For expenditures incurred prior to March 27, 2009 the CETC reimburses employers 10 to 15 per cent of eligible expenditures up to a maximum tax credit of \$1,000 for each qualifying co-operative education work placement. The enhanced maximum amount of the CETC is pro-rated for taxation years straddling the effective date.

Eligible employers must

- Have a permanent establishment located in Ontario;
- be subject to Ontario income tax;
- and incur eligible expenditures associated with hiring co-op students enrolled in an Ontario university or college.

Additionally, eligible employers must hold a certified document from an eligible educational institution confirming that the employer has provided a placement to a student in respect of a qualifying co-op work placement. Although members of a partnership may share the CETC, limited partners are not entitled to this credit.

Ontario Tax Credit website

Click on this link for more information: <http://www.rev.gov.on.ca/en/bulletins/ct/pdf/4014.pdf>

- *Don't stress about extra paperwork for tax season. Simply hand the letter you receive from us at the end of the students' co-op work term to your accountant and your job is done.*

Making Education Work

Centre for Co-operative Education, Internship and Career Services (B110)

Barrie (T) 705-728-1968, ext.1340 (F) 705-722-5123

Orillia (T) 705-325-2740 (F) 705-325-3690 Owen Sound (T) 519-376-0840 (F) 519-376-5395

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