



**ROBERT M. BUCHAN DEPARTMENT OF MINING
Term Adjunct Position
Academic Year Fall 2026**

Posting Date: Tuesday, June 2, 2026

Closing Date: 12noon, Tuesday, June 30, 2026

The Robert M. Buchan Department of Mining Engineering, Smith Engineering at Queen's University invites applications from suitably qualified candidates interested in teaching the following course for the fall 2026 session.

**APSC 141 Introduction to Computer Programming for Engineers 1
September 1 to December 31, 2026
Positions Available - 1**

Qualifications

Minimum of M.Sc. in Mining Engineering or related field and must hold a professional engineering registration in Canada. Consideration may be given to applicants who are actively pursuing a professional engineering registration in Canada (i.e., EIT). Previous teaching experience at the University level considered an asset. Previous educational background and/or experience must be suited to teaching the course described below. Candidates must have excellent communication and presentation skills, as well as being capable of working as a member of a teaching team.

Course Description

Units: 1.3

This course introduces concepts and practice of computer programming. The emphasis is on the design of correct and efficient algorithms, introducing variables, operators, flow control, and conditions. Applications are made to engineering problems.

Course Details

Format: lecture: Yes; lab: Yes; tutorial: No, for 5 weeks

Audience: undergraduate level students

Location: in person on campus at Kingston, ON

Lab Supervision - Yes



Expected Enrolment (subject to change): 800+ students

Percentage of Responsibility: 100%

Course Learning Outcomes

1. Describe computational machinery and the relation between computer hardware and software.
2. Translate complex problems into programmatic flow charts. Convert flow charts into programs.
3. Declare and initialize variables of various types and apply them within coded expressions translated from symbolic equations.
4. Translate logical statements to coded conditional statements and create: if, if/else, chained if/else, and switch/case structures.
5. Construct program sequences as well as achieve looped statements using for, while, and do/while repetition structures.
6. Analyze real-life engineering problems and create code to achieve solutions while following a systematic approach.
7. Use proper coding techniques for syntax, indentation, commenting, and variable naming.
8. Implement debugging strategies to detect, find, and rectify programming errors.

The above course is in person at the Kingston, Ontario campus. The contract will run from September 1, 2026 to December 31, 2026.

The fall term session runs from September 8 to December 8, 2026 with exams running from December 10 to December 23, 2026.

Lectures for APSC 141 are on-line, asynchronous (no instruction required by instructor) while labs are in-person, instructor lead, from weeks 2 to 5 (September 14 to October 9). Exams are in-person during week 6 (October 19 to October 23) with supplementary exams occurring in the following weeks.

Enrollment is split into 4 sections (approximately 200 students per section). Each section has two hours of lab per week, for a total 8 hours of lab time per week lead by the course instructor.

This course may have an Academic Assistant and will have Teaching Assistant support.

The stipend for this position will be between \$9,500 and \$11,500. Actual salary will be commensurate with years of teaching experience and course weight, as per the Queen's-QUFA Collective Agreement.



This posting is to fill an existing vacancy within the University.

As part of the application process at Queen's University, our recruitment system uses Artificial Intelligence (AI), as defined under the Ontario Employment Standards Act, to ask job-related questions and confirm eligibility for hire. All final hiring decisions are made using non-AI related processes.

Prior to May 1, 2022, the University required all students, faculty, staff, and visitors (including contractors) to declare their COVID-19 vaccination status and provide proof that they were fully vaccinated or had an approved accommodation to engage in in-person University activities. These requirements were suspended effective May 1, 2022, but the University may reinstate them at any point.

The University invites applications from all qualified individuals. Queen's is strongly committed to employment equity, diversity, and inclusion in the workplace and encourages applications from Black, racialized/visible minority and Indigenous people, women, persons with disabilities, and 2SLGBTQ+ persons.

The University will provide support in its recruitment processes to applicants with disabilities, including accommodation that takes into account an applicant's accessibility needs. If you require accommodation during the interview process, please contact mine.office@queensu.ca.

Academic staff at Queen's University are governed by a [Collective Agreement](#) between the University and the [Queen's University Faculty Association \(QUFA\)](#).

Application Process

In accordance with Canadian immigration requirements, Canadian citizens and permanent residents of Canada will be given priority, including any qualified individuals who have a valid legal work status in Canada.

Please indicate in your application if you have a valid legal work status in Canada. Applications that do not include this information will be deemed incomplete. Applications from all qualified candidates will be considered in the applicant pool.

Applications should include:

- a statement if you have a valid legal work status in Canada,
- a complete and current curriculum vitae,
- a statement of teaching experience,
- the names and contact details of two referees who may be contacted,



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Queen's University

Robert M. Buchan
Department of Mining

- any other relevant materials the candidate wishes to submit for consideration.

Applicants are encouraged to apply and upload all documents in their application packages electronically as PDFs on the following website:

<https://apply.smithengineering.queensu.ca/124009>

Applications should arrive no later than **12noon on Tuesday, June 30, 2026.**