



**ROBERT M. BUCHAN DEPARTMENT OF MINING
Term Adjunct Position
Academic Year Winter 2025**

Posting Date: Monday, October 8, 2024

Closing Date: 12noon, Monday, November 4, 2024

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 2024 session.

**MNTC 314 – Drilling and Blasting
January 1 to April 30, 2025**

Qualifications

Minimum of BSc in Mining Engineering or related field and must hold a professional engineering registration in Canada. 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

The purpose of the course is to introduce commercial explosives technology and examine blast design and its outcomes. The students will be taught principles of commercial explosives engineering, including detonation theory, calculation of energy and products of detonation, prediction of explosives performance and sensitivity, methods of measuring, predicting and controlling rock fragmentation, throw, damage, vibration, flyrock and air blast and will apply their knowledge to design blasts for open cast and underground operations for both construction and mining applications. Recognizing that drilling is related to blasting, the course will introduce rock breakage by mechanical means as applied to drilling, examine parameters affecting drill performance, and choose drilling equipment for various mining methods.



Course Details

Format: lectures, labs, and tutorial hours per week for twelve weeks. (Lec: Yes, Lab: No, Tut: No)

Audience: graduate level students

Location: online

Lab Supervision – No

Expected Enrolment (subject to change): 15 students

Percentage of Responsibility: 100%

The contract will run from January 1, 2025 to April 30, 2025. The winter session runs from January 6 to April 4, 2025 with exams running from April 6 to April 23, 2025.

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 [QUFA](#), and Queen's University.

Application Process

To comply with Federal laws, the University is obliged to gather statistical information about how many applicants for each job vacancy are Canadian citizens/ permanent residents of Canada. Applicants need not identify their country of origin or citizenship, however, all applications must include one of the following statements: I am a Canadian citizen/permanent resident of Canada; OR, I am not a Canadian citizen/permanent resident of Canada. Applications that do not include this information will be deemed incomplete.

Applications should include a complete and current curriculum vitae, a statement of teaching experience, the names and contact details of two referees who may be contacted, and any other relevant materials the candidate wishes to submit for consideration.

Applications can be submitted to the Adjunct Appointments Committee at the address below, or by e-mail to mine.office@queensu.ca. Applications should arrive no later than **12noon on Monday, November 4, 2024**.



**SMITH
ENGINEERING**
Queen's University

Robert M. Buchan
Department of Mining

Adjunct Appointments Committee
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