SMITH ENGINEERING
Queen's University

Robert M.Buchan
Department of Mining

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

Posting Date: Friday, May 30, 2026
Closing Date: 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.

MINE 467 Geostatistics and Orebody Modelling
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. 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: 4.5
This course introduces those principals of geostatistics used in evaluating grade distribution in orebodies from drillhole data. Basic concepts of spatial distributions, sampling, distance weighted averages, and variograms are covered. Cases from practice will be employed to illustrate concepts. Use of commercially available software to carry out geostatistical calculations and graphical representation will be made. Utilizing these techniques, students will develop a block model of ore grade distribution for an orebody and then apply this model to a mine pre-feasibility study in a subsequent course.

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Course Details
Format: 3 lecture hours, 1.5 lab hours and no tutorials per week for twelve weeks. (Lec: 3, Lab: 1.5, Tut: 0)
Audience: undergraduate level students
Location: in person on campus at Kingston, ON
Lab Supervision - Yes
Expected Enrolment (subject to change): 33 students
Percentage of Responsibility: 100%

Course Learning Outcomes

1. Analyze drillhole data to assess sample quality, define estimation units, obtain basic statistics, model the spatial continuity and link to the geological interpretation of the ore body.
2. Develop a block model of resources of an ore deposit by applying different modelling techniques, understanding the estimation methods, and procedures for classification of resources and reserves.
3. Prepare a mineral resources report of a real deposit following professional guidelines given by NI 43-101.
4. Identify uncertainties in mineral resources and mining reserves and understand the concepts of conditional simulation.

The successful incumbent will have full responsibility for the course. Stipend will be based on a single course. 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.

The above course is in person at the Kingston, Ontario campus. Lectures and exams will be conducted in person. 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.

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,
- 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/123995

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