



The Robert M. Buchan Department of Mining
Teaching Fellow Position
Academic Year 2022/2023

Posting Date: April 11, 2022

Closing Date: April 20, 2022

The Robert M. Buchan Department of Mining at Queen's University invites applications from suitably qualified candidates interested in teaching the following **undergraduate course** in the 2022 Summer Term.

Qualifications:

Minimum of M.A.Sc. and currently enrolled in a Ph.D. program in Mining Engineering or a related field, expertise in the field relevant to the course and appropriate teaching experience. Previous educational background and/or experience must be suited to teaching the courses described below. Candidates must have excellent communication and presentation skills, as well as be capable of working as a member of a teaching team. Prior teaching experience in engineering and lecture-based engineering course would be a strong asset and/or experience teaching online.

Course Description and Teaching Requirement:

MNTC 307 – Geomechanics and Ground Control Anticipated enrolment:

Lecture: 3, Lab: 0, Tutorial: 0

Rock engineering deals with the design of excavations in rock. In this course, methods of characterizing rock masses will be reviewed with the objective of estimating rock mass strength. This will include field investigation methods and laboratory testing. Methods of estimating and measuring in situ stress conditions will be described. Analytical and numerical methods of assessing stresses around mining excavations are reviewed, with emphasis on how to select appropriate methods of stress analysis. Building on these elements, methods of stability analysis are presented for both open pit and underground mine design applications.

Academic Units:

Mathematics 0; Natural Sciences 0, Complementary Studies 0, Engineering Science 36, Engineering Design 12

The above course will be delivered online. The successful applicant will have 100 percent responsibility for the course.

Definitions:

Summer term classes begin May 9th and end on July 29th, 2022. The summer term examination period is August 1-10, 2022. More information on the Undergraduate Academic Plan can be found [here](#).

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/Aboriginal people, women, persons with disabilities, and 2SLGBTQ+ persons. All qualified candidates are encouraged to apply; however, Canadians and permanent residents of Canada will be given priority.

Teaching Fellows at Queen's University are governed by the Collective Agreement for Teaching Assistants and Teaching Fellows between PSAC Local 901 and Queen's University. Remuneration will be in accordance with the Collective Agreement, and appointments are subject to funding or enrolment criteria. Remuneration for teaching this course will be \$8,650.00.
<http://queensu.ca/facultyrelations/teaching-assistants-and-fellows/collective-agreement>.

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 Brittany Cox, brittany.cox@queensu.ca, Financial and Administrative Assistant.

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 current *curriculum vitae*, a copy of your transcript (unofficial is accepted) a statement of teaching experience, the names and contact details of two referees, and any relevant other materials the candidate wishes to include for consideration. Applications can be submitted to Brittany Cox at brittany.cox@queensu.ca. Applications should arrive no later than Wednesday April 20th, 2022.

The Robert M. Buchan Department of Mining
c/o Brittany Cox
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