



## **The Robert M. Buchan Department of Mining Graduate Teaching Assistantships Spring/Summer Term 2026**

All graduate students are invited to apply for a Graduate Teaching Assistantship for the spring/summer term 2026.

Following the Collective Agreement, students who are studying in The Robert M. Buchan Department of Mining will be given preference over students from outside the department.

It is recommended that you read the PSAC Local 901, Collective Agreement for Graduate Teaching Assistants found at:

<https://www.queensu.ca/facultyrelations/psac%20901-1/collective-agreements/MoAs/LoUs>

The posted positions are conditional upon enrollment figures and budgetary approval. Positions will remain posted until they have been filled (no less than 7 business days) from the date of posting and remuneration will be in accordance with the Collective Agreement.

TA assignments could include duties such as leading laboratories, tutoring, hosting virtual office hours, marking of assignments, reports, quizzes, and exams. Due to changes in enrollments, some positions may have their hours adjusted once the semester begins. Any necessary training will be included in the assignment.

It is your responsibility to ensure you make yourself available to complete the TA work. If you are planning on being away from internet access for a significant amount of time during the semester, please indicate this when submitting your application and keep your employment supervisor up to date.

As TA-ships do not form part of the funding package for graduate students in the Robert M. Buchan Department of Mining, TA-ships will only be offered as per the criteria outlined in Second Preference – Group B or to candidates in Group C or D. In addition, we will do our best to match your preference to course offerings.

*Second Preference – Group B:* for qualified graduate students registered as:

- (i) students in a department or program in which the TA-ship will be offered; or
- (ii) students in an interdisciplinary program with TA budget resources, and for whom



- (iii) the TA-ship will not form part of the funding commitment offered by Queen's University;  
or  
(iv) there is currently no funding commitment provided by Queen's University.

*Third Preference – Group C:* for qualified graduate students that have previously held a TA-ship or TF-ship for the Employer.

*Fourth Preference – Group D:* for qualified graduate students that have not yet met the criteria as set out in A, B, or C.

### **Application Process**

- Review the list of available TA positions for the spring/summer term 2026.

MNTC - <https://www.queensu.ca/academic-calendar/engineering-applied-sciences/courses-instruction/mntc/>

- Complete the [application form](#). Please note that you are required to upload your CV, cover letter, and transcript **in PDF** in the application form.

Applications will be reviewed at the end of the application period.

**Applications are due by 12noon, Tuesday, April 14, 2026**

Course Code	Title	Term	Instructor	Estimated Enrollment	# of TA ships and hours	Required Background/Skills	Description
MNTC 307	Geomechanics & Ground Control	S	Linping Wu	20	1 at 30hrs	Background in Mining Engineering and geomechanics/rock mechanics	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.
MNTC 313	Intro to Computer Programming	S	Oscar Rielo	50	2 at 30hrs	Knowledge of the subject matter	Students will be introduced to the fundamental concepts of computer programming using both C/C++ and MATLAB. The course will teach computer programming with a focus on practical applications for analyzing data and solving practical mathematical problems. Topics will include basic components of a computer (both hardware and software), memory and variables, expressions, selection structures, loops, arrays, functions, and commonly used algorithms such as sorting and searching. At the end of the course, students will be able to apply computer programming skills to assist in both design and analysis for real-life engineering applications.
MNTC 419	Mine Supervision & Project Management	S	Dan Laing	20	1 at 30hrs	Knowledge of the subject matter	This course presents an introduction to mine supervision; covering the roles and responsibilities of the industrial supervisor including health and safety; technical skills and knowledge and effective communications with different stakeholder levels from front line workers to senior management. The second part of the course will introduce key concepts related to project management including the role of the project manager, identifying requirements and balancing of competing project constraints which include, but are not limited to, scope, schedule, cost, quality, and risk.
MNTC P07	Surveying Principles	S	Pierre Bergeron	20	1 at 30hrs	Knowledge of the subject matter	This course introduces learners to the fundamental principles of surveying. Learners will develop transferable survey computation skills that can be applied using various technologies in diverse environments. In this course, learners will become familiar with differential leveling techniques and basic measurement of angles and distances including calculation techniques. Principles of error propagation and error analysis are also introduced. Finally, a study of modern survey equipment, related concepts and terminology, including Total Stations, Data Collectors, and GPS mapping, will provide learners with an understanding of the current technologies being used in industry today.