All graduate students are invited to apply for a Graduate Teaching Assistantship for the Fall 2022 term. 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:

http://www.queensu.ca/facultyrelations/teaching-assistants-and-fellows/collective-agreement

Please see the attached list of courses being taught this term that require a TA support. For more information on each course, please see the Undergraduate Calendar at http://calendar.engineering.queensu.ca/

These 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 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, 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. Note that for Fall 2022, Final exams are scheduled until December 24 so it is possible that marking may be required right to the end of the month.

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:

Please complete the application form. Please note that you are required to upload your CV, cover letter, and transcript in the application form.

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

All Applications are due by August 24.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Term</th>
<th>Instructor</th>
<th>Estimated Enrollment</th>
<th># of TA ships and hours</th>
<th>Required Background/Skills</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MNTC 415</td>
<td>Metal Extraction Processes</td>
<td>F</td>
<td>Christopher Pickles</td>
<td>40</td>
<td>1 TA (45 hrs)</td>
<td>Undergraduate degree in Mineral processing or Chem Eng/Chem Eng. Basic understanding of thermodynamics as applied to metallic systems and knowledge of hydrometallurgical and pyrometallurgical processes.</td>
<td>This course covers the fundamental and practical applications of metal extraction processes. An introduction to the chemical production of metals will be provided. Basic processing concepts of hydrometallurgical, pyrometallurgical and electrometallurgical unit operations will be discussed. The properties of solutions relevant to metal extraction are reviewed. Fundamentals of mass and heat balances in metallurgical processes will be covered. Some metal production flowsheets are utilized to illustrate the integration of unit processes required for metal extraction. (0/4/0/0/18/9)</td>
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