The Robert M. Buchan Department of Mining
Teaching Fellow Position
Academic Year 2022/23

Posting Date: November 5, 2022
Closing Date: December 1, 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 2023 Winter Term (January 1st, 2023 – April 30, 2023).

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 302 – Engineering Physics

Lecture: 3, Lab: 0, Tutorial: 0

This course further develops physical concepts of mechanics and electromagnetism in the context of engineering applications. The first part of the course focuses on the mechanics of solid materials, building upon knowledge of rigid-body mechanics and introducing students to the concepts of material strength and elastic deformation. These concepts will be applied to structural members such as rods, columns, shafts, and beams, with loading conditions such as tension, compression, bending, and torsion. The second part of the course focuses on basic direct-current (DC) electrical circuitry and components including electric motors. Students will study concepts such as voltage, current, resistance, capacitance, and inductance. Simple circuit analysis using Kirchhoff’s laws will be presented, and the sizing and integration of electric motors both electrically and mechanically will be introduced.

Academic Units:
Mathematics 0; Natural Sciences 0, Complementary Studies 0, Engineering Science 36, Engineering Design 0
The above course will be delivered online. The successful applicant will have 100 percent responsibility for the course.

Definitions:
Winter term classes begin on January 8 and end on April 10, 2023, with the winter term examination period running from April 14-28, 2023. 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 per the Collective Agreement, and appointments are subject to funding or enrolment criteria. Compensation for teaching this course will be $8,650.

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

The University will provide support in its recruitment processes to applicants with disabilities, including accommodation that considers an applicant’s accessibility needs. If you require accommodation during the interview process, please get in touch with Jill Hodgson at hodgsonj@queensu.ca

To comply with Federal laws, the University must 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 their transcript (unofficial is accepted), a statement of teaching experience, the names and contact details of two referees, and any other relevant materials the candidate wishes to include for consideration. Applications can be submitted to Jill Hodgson at hodgsonj@queensu.ca. Applications should arrive by December 1, 2022.

The Robert M. Buchan Department of Mining

c/o Jill Hodgson

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