The Robert M. Buchan Department of Mining

Teaching Fellow Position

Academic Year 2021/22

Posting Date:   November 18, 2021

Closing Date:  November 28, 2021

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 Winter Term (January 1st, 2022 – April 30, 2022).

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 Kirchoff’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 January 3rd and end on April 30, 2022. The winter term examination period and more information on the Undergraduate Academic Plan can be found here.

The University invites applications from all qualified individuals. Queen’s is committed to employment equity and diversity in the workplace and welcomes applications from women, visible minorities, Aboriginal peoples, persons with disabilities, and LGBTQ 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 $8480.00. 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.

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 Sunday November 28th, 2021.

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c/o Brittany Cox
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