Faculty of Engineering and Applied Science

JOB POSTING:

COURSE AUTHOR

The Bachelor of Mining Engineering Technology (BTech Mining) program, administered through the Faculty of Engineering and Applied Science (FEAS) at Queen’s University, invites applications from suitably qualified candidates for a Term Adjunct position supporting the development and/or delivery of the online Mineral Economics course in the new BTech Mining program.

Program Overview:
The BTech Mining program is a joint collaboration between Queen's University’s Robert M. Buchan Department of Mining and Northern College’s Haileybury School of Mines. The BTech Mining program is a degree completion program aimed at college-educated professionals looking to advance their knowledge and education. Designed for Engineering Technologists, or Mining Engineering Technician graduates, this program consists of customized bridging courses combined with two years of online university study, and two on-site field placements (located in Kingston and Timmins). Curriculum content is designed to provide students with fundamental depth of knowledge and background theory in the field of mining as well as relevant technical, managerial, and sustainability skills.

Further details of the program can be found at: http://btech.engineering.queensu.ca.

Course Development:

Academic staff at Queen’s are governed by a collective agreement between QUFA and the University which is posted at http://www.queensu.ca/facultyrelations/faculty-librarians-and-archivists/collective-agreement and at http://www.qufa.ca.
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In accordance with the QUFA Collective Agreement (Appendix S), candidates interested in course development act as subject matter experts, and work in collaboration with an Instructional Design Team that supports project management, course design and online pedagogical expertise.

The assigned course will be developed for an online learning format suitable for diverse students at the undergraduate level. During the pilot phase of the new BTech Mining program, enrollment is anticipated to be less than 30 students. For the development of these courses, there are no requirements for supervision or laboratory/practicum work.

**Key Responsibilities:**

*Administrative Service Responsibilities:*

- Establishes a course plan that identifies general course objectives/expectations, methods of assessment, mark breakdown, course resources and details of the components of each section/unit of the course including section/unit objectives;
- Prepares a curriculum submission, if required;
- Creates a template document for the course syllabus;
- Identifies when, and assists with, obtaining permission for the use of Intellectual Property for the course;
- Participates in the testing of online course components prior to the start of the course; and
- Achieves project timelines.

*Academic Responsibilities:*

- Uses subject expertise to ensure the course reflects the highest levels of scholarship in both the discipline and subject area;
- Adopts and incorporates evidence-based practices to design an inclusive and effective online teaching course;
- Considers activities and interactive components for inclusion in the course and links to best ways to structure;
- Identifies and establishes achievable, measurable, and pedagogically sound learning outcomes and unit and lesson objectives;
- Develops appropriate assessments to measure learning outcomes, preparing multiple versions of each assessment activity in order to combine different assessment activities from each course offering to maintain academic integrity;
- Prepares and reviews drafts of course materials and recommends other resources for reference;
- Ensures accuracy and appropriate rigor of course content;
- Identifies and/or develops appropriate lesson study materials including:
  - Required and recommended reading materials,
  - Concept expansion materials (text-based, graphic, and/or multi-media),
  - Student interactions (e.g. discussion groups; small study groups),
  - Self-check activities,
  - Synchronous learning activities,
  - Assignment questions,
  - Rubrics and answer keys,
- Includes any additional instructional resource materials required, consulting with University Copyright Advisory Office and/or Instructional Design Team regarding licensing agreements and clearance for use online; and
- Reviews completed course collaboration with the Instructional Design Team following its first offering and identifies changes, making revisions as needed before the next delivery of course.

**Appointments Timeline:**
The FEAS plans to start course development for the BTech Mining Program by December 11\textsuperscript{th}, 2017 with a scheduled completion date of September 1\textsuperscript{st}, 2018.

**Qualifications:**
Candidates interested in applying must have, at a minimum, a Bachelor’s degree in a related field. Preference will be given to candidates with industry experience in the application of mineral economics, including mining project feasibility and pre-feasibility studies, and/or mining project financing. Consideration will be given to individuals with an equivalent combination of education and experience. Experience with learning technologies, and/or previous experience developing online learning activities, organizing resources, and designing effective learner assessments are considered to be assets.

**Process:**
For an application to be considered complete, candidates should submit a cover letter, a statement of technical expertise and/or teaching experience, a complete and current Curriculum Vitae, and any other relevant materials the individual wishes to submit for consideration such as a teaching dossier, etc.

It should be noted that the *Collective Agreement* sets minimum levels of remuneration for Term Adjuncts. However, compensation over and above the minimum may be determined based on market demand and level of relevant experience and expertise.

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 candidates are
encouraged to apply; however, in accordance with Canadian Immigration requirements, Canadian citizens and Permanent Residents of Canada will be given priority.

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.

The University will provide support in its recruitment processes to applicants with disabilities, including accommodation that takes into account an applicant’s accessibility needs. Candidates requiring accommodation during the recruitment process are asked to contact: btech@Engineering.Queensu.ca

Applications must be submitted electronically (either as PDF or MS-Word files) to: btech@Engineering.Queensu.ca with the subject line “Term Adjunct Application for the BTech Program Mineral Economics Course Development.”

The deadline for submissions is December 6, 2017.
MNTC 409 – Mineral Economics

Course Summary
Economic evaluation and economic feasibility of mining projects is central to the analysis of the overall mining life-cycle. The course introduces basic concepts in engineering economics. These concepts are then applied to: the project definition and economic evaluation process; economic analysis tools and techniques; taxation; inflation; cost estimation; the nature of mineral supply and demand; mineral commodity markets and pricing; uncertainty and risks associated with the mining industry, their analysis and incorporation into the evaluation process. The course covers a variety of situations and challenges faced in the evaluation of exploration and mine development opportunities, as well as key applications to mining and mineral processing design and decision-making.