

STEM Enrichment Course Instructor

Title: STEM Enrichment Course Instructor

Date of Commitment: July 2020 – August 2020

Department: Engineering Outreach Office, Faculty of Applied Science & Engineering

Number of Positions: 3-5, pending enrollment

Hours per week: up to 20 hours

Rate of Pay: \$30.00/hour

Deadline to Apply: Sunday, July 12, 2020 at 12:00 PM

The Engineering Outreach Office (EOO) manages and administers the core outreach programs offered by the Faculty of Applied Science & Engineering at the University of Toronto. We act as the central unit for outreach activities promoting Science, Technology, Engineering and Math (STEM) education to a wide audience. For more information about the Engineering Outreach Office, visit:

www.outreach.engineering.utoronto.ca.

STEM Enrichment Courses are intended to challenge and excite highly motivated students (grade 9-12) in various areas of STEM (Science, Technology, Engineering, Math). Courses will include synchronous (live) and asynchronous (do on your own time) activities. Led by upper-year undergraduate and graduate engineering students, students will explore topics in engineering that are often not covered until 2nd or 3rd year.

What Does a STEM Enrichment Course Instructor Do?

- Deliver a week-long course in one of the following areas:
 - Data Analytics and Intelligent Systems (example: cryptography)
 - Engineering and Human Health (example: biomedical-focused modelling and analysis)
 - Advanced Materials and Manufacturing (example: optics, or aircraft design)
 - Sustainability (example: innovative solutions to everyday problems)
- Adapt all course content from existing activities to curate an exciting and informative course for high school students
- Contribute to the Quercus site as needed
- Lead synchronous sessions on Bb Collaborate

- Support participants during academic hours, and answer any relevant questions throughout the program
- Act as an ambassador of the Faculty of Applied Science & Engineering and the University of Toronto

Qualifications:

- Must be an upper year undergraduate or graduate student in Engineering or related field. Recent graduates are also welcome to apply.
- Have a strong record of teaching, particularly using engaging teaching methods.
- Must be able to demonstrate considerable depth of knowledge and/or experience in one of the [proposed course areas](#).
- Are comfortable with LMS systems (eg. Quercus) and online video systems (eg. Bb Collaborate)

We are looking for individuals who are:

- Preference to current students in Engineering at the University of Toronto.
- Have an interest in STEM education (science, technology, engineering, and math)
- High degree of scientific or engineering literacy
- Ability to work independently and as part of the team
- Excellent oral and written communication skills
- Able to work flexible hours including some evenings and weekends
- Able to work with people from other cultures / backgrounds
- Highly developed computer skills (eg. Google Apps)
- Well developed problem solving and conflict resolution skills

Additional Information:

All instructors will be required to attend online training. Instructors are required to complete basic health and safety training, AODA training, and obtain a Police Clearance Letter prior to the program start date.

Application Process:

To apply for this position, follow this link: <https://forms.gle/NA7LssXDzYBf1pNU9>

You may contact Claire Heymans, Outreach Coordinator, at apply@engineeringoutreach.ca for any questions and concerns you may have. Please note that only successful candidates will be contacted.