First Year Foundations Program, Engineering Problem Solving and Mathematics Course
Faculty of Applied Science & Engineering
Summer 2021, August 09th – 13th, 2021
Job Posting – CUPE 3902 Unit 1

Engineering Problem Solving and Mathematics is a week-long non-credit course that is delivered to newly admitted Engineering Students prior to the beginning of their fall term. The course helps students appreciate that mathematics is an essential tool for an engineer, and a major component of their first year studies. This provides students with the necessary tools to build a strong math foundation and understand how engineers use mathematics to solve problems.

Topics include online:
- Trigonometric, exponential and logarithmic functions;
- relations and their graphs and limits;
- derivatives; and,
- An introduction to MATLAB

At least One (1) Teaching Assistant position is available for this course from August 09th – 13th, 2021. The contract will be for 24 hours, at the rate of $46.24 per hour, plus 4% vacation pay.

Qualifications: Minimum of a bachelor’s degree in Engineering or Mathematics, with experience teaching first-year engineering students and/or mathematics. Strong experience in using MATLAB is required. Familiarity with pedagogical ideas of problem solving, mathematics, and MATLAB would be an asset.

Duties: Duties will include lab supervision and instruction. The teaching assistant for this course will be required to online:
- Prepare and run five hours of MATLAB tutorials for incoming first-year students;
- Prepare and lead experiments whose results will then be analyzed in the MATLAB tutorials; and
- Meet with the instructor to discuss the format of these.

The total amount of time with students would be eight hours, with a further eight hours for preparations. The course is expected to have around 30-50 students.

How to Apply:
Candidates are asked to submit, as ONE PDF document, the following:

1. 1-page Cover letter;
2. Curriculum Vitae;
3. A summary that demonstrates your experience, interest and/or excellence in teaching (maximum 1 page).
Submit application online via:

https://forms.office.com/Pages/ResponsePage.aspx?id=JsKqeAMvTUuQN7RtVsVSECJrhE2KiP1H
p0WdAv3I8oFUNE5JQjVUM1BXUlJpVMIA5Ou5WFQwSEZENC4u

The application deadline is April 01, 12:00 PM EST, 2021.
Posting Date: March 10, 2021.

If during the application and/or selection process you require accommodation due to a disability, fyjobs@engineering.utoronto.ca

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons / persons of colour, women, Indigenous / Aboriginal People of North America, persons with disabilities, LGBTQ persons, and others who may contribute to the further diversification of ideas.

This job is posted in accordance with the CUPE 3902 Unit 1 Collective Agreement. The Departmental Hiring Policy is available in the Department office and in the CUPE Local 3902 office.