University of Toronto Engineering Outreach
Coding Curriculum Expert

Dates of Employment: August 2020 – September 2020

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

Estimated Hours/Week: Up to 25 hours per week during applied instructional phase (August); Up to 15 hours per week during support stage (September)

Rate of Pay: $35 per hour

Number of Positions: 1

The University of Toronto Engineering Outreach Department is developing teacher training courses to help instruct elementary school teachers in how to create and deliver lessons related to the new coding components embedded in the Ontario Ministry of Education math curriculum. These will be offered as single-session, online only courses that will breakdown the new additions to the curriculum and provide instruction as to how they can be embedded into existing classroom learning.

The University of Toronto Engineering Outreach Department will implement this new virtual program for Summer 2020. Due to changes to elementary education caused by the pandemic, there is a need for supplemental programs to complement remote learning provided by schools. This position will be expected to adapt quickly with the rapidly evolving situation.

Duties and responsibilities:
Reporting to the *Outreach Coordinator* and under the direction of the *Associate Director, Engineering Outreach Office*, *University of Toronto Engineering Outreach Coding Curriculum Expert* will act as the resource person and instructor for all matters related to the coding components of the Ontario Math Curriculum. This position will support the development and implementation of online instructional sessions for elementary school teachers related to coding and math learning.

Specific duties may include:
1. Curating online learning resources for grade 1-6 students (personal, Khan Academy, open source textbooks, etc.)

2. Develop and lead live online sessions for elementary school teachers related to coding and the 2020/2021 Ontario Math Curriculum

3. Provide ongoing support to teachers who participated in the sessions

4. Meet at least semi-weekly with team lead and the Outreach Coordinator to discuss the implementation and development of online session as well as mechanisms for ongoing support

5. Coach Academic Mentors and other U of T Engineering stakeholders on learning expectations at the elementary school level, support the use of appropriate teaching strategies

Experience and education:
- Certification with the Ontario College of Teachers
- Experience with Primary/Junior/Intermediate divisions in Math and/or Science
- Experience teaching e-Learning courses

- Preference will be give to: Graduates of the University of Toronto, particularly from the Faculty of Applied Science & Engineering; or
- Experience working with international students or English-language learners.

- Comfort and familiarity (or willingness to learn) utilizing various online applications and services is required (LMS, Google Suite, Microsoft Teams, WeBWork, etc.)
- Self-directed and self-motivated; this is a work-from-home/remote position
- Able to work consistent hours week-to-week; possibility of evening and weekend work
- Demonstrating professionalism, exercising sound judgment, working independently, and using strong
- organizational skills
- A Police Clearance Letter will be required of all successful applicants

Applicants submit:
1. Cover letter
2. Resume

Qualified applicants should submit their cover letter and resume, to the attention of Michael Waldman, STEM Educator in Residence, Engineering Outreach Office at michael.waldman@utoronto.ca. Please include the position you are applying for in the subject line.

Applications Due: July 27, 2020 at 12:00PM EST.