Posting Date: February 4, 2019

Department of Mathematics, Faculty of Arts & Science
University of Toronto

JOB POSTING – TEACHING POSTDOCTORAL FELLOWSHIP

The Department of Mathematics in the Faculty of Arts & Science is seeking to hire a highly motivated postdoctoral teaching fellow to work in partnership with the Faculty of Applied Science and Engineering (FASE) to transform first-year math education for engineering students at the University of Toronto. The successful candidate will teach undergraduate mathematics, as well as develop and implement pedagogical innovations to enhance first-year student learning. This is an opportunity for mathematicians interested in a teaching career to further develop their teaching skills and to contribute to pedagogical initiatives that enhance the learning experience of undergraduate students.

Description of duties:

The successful candidate will work as part of a team that includes mathematics and engineering faculty and lead teaching assistants (TAs). The candidate will conduct research on pedagogical techniques to develop instructor and TA training resources and better support the use of active learning and will implement training sessions to support all sections of MAT 186: Calculus I, MAT 187: Calculus II, and MAT 188: Linear Algebra. The candidate will also work with instructors and TAs to track and assess the effectiveness of new practices in all course sections, including classroom observation and feedback.

They will be assigned 1.0-1.5 full course equivalent (FCE) each year of teaching in mathematics (calculus and/or linear algebra) to first-year engineering students. They will also be responsible for incorporating engineering applications of mathematics across first-year math courses taught to engineering students. They will examine best practices in engineering mathematics education, including identifying and implementing successful approaches to incorporating engineering applications within mathematics courses, and researching best practices in pedagogy.

Salary: $60,000/year (plus benefits)

Required qualifications:
The candidate must have a recent PhD or will obtain a PhD by July 2019 in mathematics, or a related field, with experience teaching mathematics to undergraduates. We will value demonstrated experience in some of the following: course and curriculum development, pedagogical development activities, supervision of TAs, or contributions in the Scholarship of Teaching and Learning. Strong written and oral English communication skills are required, as are the ability to proactively set, prioritize, and accomplish goals. Experience working in teams is strongly desired.
**Application instructions:**
All individuals interested in this position must submit a cover letter, CV, and teaching dossier. We prefer candidates to include three reference letters (to be submitted to [https://www.mathjobs.org/jobs](https://www.mathjobs.org/jobs) by the reviewers themselves. We will however consider applications submitted by the deadline with reference letters to follow; in the case where reference letters will be sent after the deadline, please indicate in your cover letter the name and contact information of the individuals providing references letters. The cover letter should describe your teaching experience, contributions in pedagogical development, pedagogical scholarship (e.g., interests, presentations, publications), along with long-term career goals, and their fit with the focus of this call.

Please submit these materials online at: [https://www.mathjobs.org/jobs/jobs/13590](https://www.mathjobs.org/jobs/jobs/13590).

**Closing date:** Tuesday February 19, 2019

**Supervisor:** Jeremy Quastel, Chair, Department of Mathematics

**Expected start date:** July 1, 2019

**Term:** 24 months

**FTE:**
The normal hours of work are 40 hours per week for a full-time postdoctoral fellow (prorated for those holding a partial appointment) recognizing that the needs of the employee’s research and training and the needs of the supervisor’s research program may require flexibility in the performance of the employee’s duties and hours of work.

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*Employment as a Postdoctoral Fellow at the University of Toronto is covered by the terms of the CUPE 3902 Unit 5 Collective Agreement.*

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*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.*

*Toronto is a vibrant and multicultural city, offering an exceptional quality of life.*