

## Research Assistant

**Department:** Chemistry & Biology

**Position supervisor:** Dr. Darius Rackus and Dr. Andras Kapus

**Contract length:** Temporary, 4-month summer internship (May 1, - September 1, 2023)

**Hours of work per week:** up to 36.25 hours/week

**Rate of pay:** \$20.37

**Deadline to apply:** **March 13th, 2023**

### About the opportunity

The second iteration of the Leacross Foundation Endowment complements the training capabilities of the iBEST, offering training internships to Toronto Metropolitan University (TMU) **third-year female-identifying undergraduate students** from the Faculties of Science or Engineering and Architectural Science as a means of support in community, education, and encouraging endeavors for women in science.

### About the team

The Miniaturization in Bioanalysis Laboratory is where the tiny can do big things! We develop tools for human health based on microscale technologies. We are an interdisciplinary team working on diverse projects in microfluidics.

### About the project

Fibrosis-on-a-chip: a microfluidic device for spatial mapping of cytokine release in fibrosis. In trying to develop a better model of fibrosis, we are developing microfluidic tools that will help us map cytokine release from epithelial cells in a wound model. We are developing a microfluidic device for generating a wound model and also measuring the position of cytokine release with respect to the wound front.

### The opportunity

This opportunity is only available to TMU **third-year female-identifying undergraduate students**.

The selected RA will be responsible for designing, fabricating and operating microfluidic devices; cultivating cells and validating the wound-on-a-chip model through immunohistochemistry; developing in-house and/or using commercial immunoassays to quantify cytokine release. The selected RA will work closely with a graduate student mentor and will receive training from the graduate mentor, core facility technicians, and the supervising PI and co-PI.

## Qualifications

Candidates should be an undergraduate student in engineering, chemistry, biology or biomedical/ life sciences. No previous research experience is required, but experience with tissue culture will be considered an asset.

Candidates should possess strong time management skills. Strong verbal communication (emails, reports, and presentations) is necessary as students will be heavily relied upon to communicate research progress.

## How to apply

**Third-year female-identifying undergraduate students are** invited to submit the following to [amoretzsohn@torontomu.ca](mailto:amoretzsohn@torontomu.ca) and quote on the email subject line: Research Assistant - Miniaturization in Bioanalysis Lab:

- Contact information
- CV (2 pages max) highlighting education and recent work/ volunteer experience
- Unofficial transcripts
- Cover Letter outlining how this opportunity fit with your career goals as well as describing your suitability for the position