

## Postdoctoral Associate Position Opportunity

**Department:** Mechanical & Materials Engineering

**Supervisor:** Dr. Christopher DeGroot

### Description of Research and Position:

Position: This position is a part of a collaborative effort between Western Engineering, the ImPaKT lab at Western, and the Ontario government to monitor the prevalence of SARS-CoV-2 in the community through sampling at wastewater treatment plants and throughout the sewershed. The candidate will be responsible for coordinating sample collection, analyzing the data from qPCR assays, and modelling the sewershed to assist in estimating the local state of the pandemic based on laboratory measurements and the developed models. Must be able to relocate to London area and have a valid driver's license with own transportation.

### Accountabilities of the Role:

- Communicate standard operating procedures for sampling with wastewater plant staff and arrange pick-up of samples (requires own transportation and valid driver's license)
- Keep detailed records of sample metadata and lab results for reporting to research sponsor(s) and other stakeholders (e.g. public health officials)
- Develop models to predict transport of virus in sewershed as well as estimate the size of infected population and local transmission rates

### Educational Requirements necessary for the Role:

- PhD in relevant engineering discipline
- Relevant research experience in wastewater engineering and/or collection systems
- Experience with Python programming and sewer modelling are assets

**Number of Opportunities:** 1

**Proposed Start Date:** 03/01/2021

**Length of Appointment:** 6 months (potential for renewal)

*Please note that the length of appointment may change.*

### How to Apply:

To apply, please send your CV to Prof. Christopher DeGroot by email at [cdegroo5@uwo.ca](mailto:cdegroo5@uwo.ca)

**Posting Expires:** February 26, 2021

*Note: Postings must be publicly available for a minimum of 10 days.*