

## **Postdoctoral fellow position available in nucleic acid detection of diseases using wastewater**

A postdoctoral fellow position is available ASAP, with the aim of filling the position by September 2022, in the wastewater monitoring program at Ontario Tech University. This program is led by Profs. Jean-Paul Desaulniers, Andrea Kirkwood and Denina Simmons. The research involves detecting and quantifying nucleic acids from *H. pylori* in composite wastewater samples, to understand population health by the detection of diseases.

The research will take place at Ontario Tech University, located in Oshawa, Ontario. This position has a one-year term, with the possibility for extension.

Ontario Tech University is an equal opportunity employer and welcomes applications from all qualified candidates, while especially encouraging applications from women, members of visible minorities, Indigenous peoples, persons with disabilities, and persons of any sexual orientation, gender identity, and gender expression. All qualified candidates are encouraged to apply; however, Canadian citizens, permanent residents and Indigenous Peoples in Canada will be given priority.

Ontario Tech University respects people's different needs and therefore will take all reasonable steps to ensure accommodation for applicants where appropriate. The University is also committed to ensuring that confidentiality is maintained throughout all aspects of the recruitment cycle.

If you require an accommodation to participate in the recruitment process, please notify us. For more information about the university's policies for accommodating employees with disabilities please review the university's [Accessibility Policy](#).

The university acknowledges the lands and people of the Mississaugas of Scugog Island First Nation which is covered under the Williams Treaties. We are situated on the Traditional Territory of the Mississaugas, a branch of the greater Anishinaabeg Nation which includes Algonquin, Ojibway, Odawa and Pottawatomi.

### **Qualifications:**

- PhD in molecular biology, microbiology, infectious diseases or related field completed within the past 5 years
- Strong record of publication
- Experience working in a BL2 bio-containment laboratory or higher
- Experience in RT-PCR, and handling RNA
- Experience in conducting data analysis with statistical tools
- Strong computer skills and motivation to learn new specialized platforms
- Excellent oral and written communication skills
- Highly developed organizational and time management skills including demonstrated ability to work independently and manage multiple projects

### **To Apply:**

Candidates should send a cover letter, a current curriculum vitae and contact information for three referees by email (subject line: PDF-1 WW) to: [wastewaterontariotechu@gmail.com](mailto:wastewaterontariotechu@gmail.com)

## **Postdoctoral fellow position available in protein and metabolite biomarker detection in wastewater using LC-MS/MS**

A postdoctoral fellow position is available ASAP, with the aim of filling the position by September 2022, in the wastewater monitoring program at Ontario Tech University. This program is led by Drs. Denina Simmons, Jean-Paul Desaulniers, and Andrea Kirkwood. The research involves detecting protein and metabolite biomarkers from humans and bacteria such as *H. pylori* in composite wastewater samples, to understand population health by the detection of diseases.

The research will take place at Ontario Tech University, located in Oshawa, Ontario. This position has a one-year term, with the possibility of extension.

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### **Qualifications:**

- PhD in chemistry, biochemistry, or a related field completed within the past 5 years
- Strong Record of Publication
- Experience using non-targeted LC-MS/MS for the detection of proteins and/or metabolites
- Experience performing complex data analysis with cheminformatic/bioinformatic statistical tools
- Excellent oral and written communication skills
- Highly developed organizational and time management skills including demonstrated ability to work independently and manage multiple projects

### **To Apply:**

Candidates should send a cover letter, a current curriculum vitae and contact information for three referees by email (subject line: PDF-2 WW) to: [wastewaterontariotechu@gmail.com](mailto:wastewaterontariotechu@gmail.com).

## **Technician position available in the detection of biomolecules and drugs using LC-MS/MS**

The lab technician is available immediately and will support wastewater surveillance research in the detection of biomolecules and drugs. The primary responsibility of the technician will be to set-up sample analyses on an Agilent 1260 Infinity Binary liquid chromatography system and Agilent 6545 Quadrupole Time-of-Flight mass spectrometer, as well as some data analyses using cheminformatics and bioinformatics software. Other important tasks will include project management, solvent preparation and management, and data management. The technician will also train students and new users on how to set-up worklists and sample analyses.

The research will take place at Ontario Tech University, located in Oshawa, Ontario. This position has a one-year term.

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### **Qualifications:**

- Minimum education: BSc completed within the past 5 years; MSc preferred
- Experience using LC-MS/MS for detection of biomolecules and/or drugs
- Excellent oral and written communication skills
- Experience troubleshooting solving instrumental errors

### **To Apply:**

Candidates should send a cover letter, a current curriculum vitae and contact information for three referees by email (subject line: Tech WW) to: [wastewaterontariotechu@gmail.com](mailto:wastewaterontariotechu@gmail.com).