



Job posting: Full-time Research Technician, Shapiro Lab, Department of Molecular and Cellular Biology, University of Guelph

The Shapiro lab is part of the Department of Molecular and Cellular Biology at the University of Guelph. We are interested in studying microbial fungal pathogens, and we are developing and employing CRISPR-based functional genomic technologies to allow us to better understand the biology, pathogenesis, and drug resistance of these pathogens. We are looking for a highly motivated and organized individual to join our dynamic research team. The applicant will be working in a welcoming and hard-working research environment and will work alongside graduate students, undergraduate students, and postdoctoral researchers. The position is full-time (35 h/week) and available starting in Summer 2021; however, the start date is flexible, with a preferable start date occurring on or before July 2021. The position is within Grant & Trust Funded Administrative & Technical (GTAT) Staff Salary Band C.

Minimum Qualifications:

- University degree in a relevant discipline (e.g., Microbiology, Molecular Biology)
- Master's degree **or** at least one year of previous research experience is preferred
- **The successful applicant will have technical expertise in:**
 - General biological laboratory skills (e.g. solution preparation, media preparation)
 - Molecular biology and molecular genetic skills (e.g., PCR, cloning, transformation, genetic manipulation)
 - Working with microbial organisms and good aseptic technique (Biosafety Level 2 experience is an asset)
 - Experience working with with tissue culture and cell lines is an asset

Typical duties may include some or all of the following:

- Performing experiments including pursuing individual research activities, as well as actively engaging with and supporting the research and experiments of other members of the lab
- Serving as a source of information or reference on standard research techniques, and training others in technical procedures or operations, including use of laboratory equipment, and providing guidance to students on use of equipment or standard research techniques for their research projects
- Organizing laboratory inventory and stock, maintaining inventory, replenishing/ordering supplies as required
- Optimizing and developing laboratory protocols and experimental procedures
- Preparing and maintaining media, buffer, reagents, solutions, cultures and related material for routine laboratory use
- Writing and updating lab manuals, protocols, and/or standard operating procedures



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- Sourcing equipment and supplies from external vendors, communicating with vendors, obtaining quotes, and may include some limited negotiation on pricing
- Operating, maintaining and troubleshooting problems with basic lab equipment
- Enforcing laboratory safety rules, biosafety protocols and procedures, and ensuring biohazardous material is handled in compliance with university procedures
- Ensuring sterilization/decontamination of laboratory material and glassware, and appropriate disposal of waste materials
- Preparing courier shipments, including required paperwork
- Setting up, testing, calibrating, operating and maintaining complex laboratory equipment; some troubleshooting to resolve equipment malfunctions before arranging for repairs; analyzes test results to measure the performance of developed systems and makes adjustments to experimental prototypes/systems as required
- Contributing to initial drafts of scientific reports, manuscripts, grant proposals and other research presentations and documentation, including formatting of manuscripts, tables and figures for submission to scientific journals
- May schedule, assign and check work performed by other lab members

How to apply:

Please send a cover letter, CV, and the contact information for three references to Dr. Rebecca Shapiro at shapiror@uoguelph.ca. We will notify applicants before contacting any references.

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The University of Guelph resides on the ancestral lands of the Attawandaron people and the treaty lands and territory of the Mississaugas of the Credit and we offer our respect to our Anishinaabe, Haudenosaunee and Métis neighbours as we strive to strengthen our relationships with them.

At the University of Guelph, and in the Shapiro Lab, fostering a culture of inclusion is an imperative. We invite and encourage applications from all qualified individuals, including from groups that are traditionally underrepresented in higher education.