Job Posting: Full-time Research Technician

The Geddes-McAlister lab at the University of Guelph uses state-of-the-art mass spectrometry to explore the interplay between hosts and pathogens during infection. We are interested in defining changes to the proteome to uncover novel infection-associated proteins and identify opportunities to perturb interactions with the host to promote the clearance of infection. The ultimate goal is to discover novel anti-virulence strategies to reduce our reliance on antimicrobial agents and impede the evolution of antimicrobial resistance. We work in a variety of biological systems, including fungal and bacterial pathogens (e.g., Cryptococcus neoformans, Klebsiella pneumoniae, Fusarium graminearum) and different host environments (e.g., mammalian and plant).

Dr. Geddes-McAlister is hiring a full-time research technician (approx. 35h/week) beginning May 1, 2020 to April 30, 2022 to manage and perform a diverse array of experiments in biochemistry, microbiology, immunology, and molecular biology. In addition, the position will be responsible for training students, maintaining biosafety records, and providing general lab maintenance and organization.

The successful applicant will have technical expertise in:
- Protein extraction and purification protocols
- Immunoprecipitation
- Protein assays (e.g., Western blot, SDS-PAGE)
- Enzyme assays (e.g., ELISA)
- Microbiology and aseptic technique
- Mammalian cell culture
- In vivo murine infection models
- Extraction of bone marrow and sample collection from murine models
- Molecular biology (e.g., PCR, gel electrophoresis)
- Genetic manipulation (e.g., cloning, electroporation, gene editing)

The following skills are considered an asset:
- Independent operation of a high-resolution mass spectrometer
- Animal handling and care training
- Quantitative proteomics data analysis

Interested applicants should submit a cover letter, CV, and contact information for three referees to Dr. Jennifer Geddes-McAlister: jgeddesm@uoguelph.ca by Friday, March 20th, 2020.