

**Post-doctoral Researcher – Poultry gut health and disease**

**Department: Pathobiology**

**Application Deadline: November 30, 2018**

**Contract Type: Full-Time**

A 2-year postdoctoral fellowship in poultry immunology and microbiology research is available to drive a discovery and application oriented research aimed at developing alternatives to antibiotics in poultry in the laboratory of Dr. Shayan Sharif (Department of Pathobiology, Ontario Veterinary College, University of Guelph, Canada). The lab is interested in poultry health and disease, especially host-virus interactions, developing novel vaccines against poultry viruses and interactions of gut microbiota with the avian host.

The project is part of a multi-institutional program in Canada aimed at identifying and applying strategies for control of necrotic enteritis in chickens. The post-doctoral researcher will undertake studies aimed at understanding host-microbiota interactions, developing novel antibiotic alternatives including probiotics and vaccines, and conduct relevant immunological investigations to characterize immunity to intestinal pathogens.

The successful candidate will possess excellent cellular and molecular immunology and microbiology techniques, including molecular cloning and expression, flow cytometry and novel vaccine formulations. In addition, the post-doctoral researcher will possess excellent oral and written communication skills, be highly creative, and self-motivated. The candidate selected for this position is expected to interact with the poultry industry. The ability to work independently and with a diverse research group is critical to this position.

Required education and experience:

- PhD in microbiology/ immunology or related discipline.
- Relevant laboratory experience in bacteriology, including characterization of bacteria and molecular cloning and expression of bacterial genes.
- Relevant experience in applying immunological techniques including, real-time PCR, serology and cellular analysis (flow cytometry) for immune response evaluation.

**Interested applicants should send their Cover Letter, CV, summary of research experience, and contact information of 3 references by email to:**

Dr. Shayan Sharif  
Professor and Chair  
Department of Pathobiology  
University of Guelph  
Email: [shayan@uoguelph.ca](mailto:shayan@uoguelph.ca)