



ONTARIO VETERINARY COLLEGE
Department of Pathobiology

MSc Position in Genetics, Nutrition and Animal Health

A 2-year MSc position is available in the Department of Pathobiology, offered jointly with the Department of Population Medicine, commencing September 1, 2017 or January 1, 2018 on host immunity to and epidemiology of *Salmonella* in swine.

The research project is part of a large multidisciplinary project involving the Departments of Pathobiology and Population Medicine at the Ontario Veterinary College, and will explore the associations between feed quality, farm management, and pig genotypes with health and growth performance. In this project, on-farm clinical trials are performed to compare growth performance up to market weight among pigs that were fed with either reduced animal protein containing diets or conventional diets during nursery period. In addition, impact of reduced animal-protein diets on immune response (cytokines and antibody) and health of pigs (morbidity and mortality, presence of pathogens) will be explored. Pig genotypes (single nucleotide polymorphisms) will be determined and their association with growth performance and health (e.g. presence of a range of pathogens such as swine influenza and PRRS) will be studied. The projects will include a review of existing literature, laboratory work (e.g. bacteriology, ELISA, PCR), analysis of data collected on farms and data produced from sample analysis, and use of epidemiological methods to analyze data. The project may involve farm visits to obtain additional samples.

Selection of the successful candidate is based on a combination of academic criteria, relevant interest and experience, referees' evaluations, and an assessment of the candidate's career goals and motivation. **Review of applications will begin immediately, and continue until the position is filled.**

Stipend: \$21 000 per year plus benefits for 6 semesters

A formal application should be submitted to Dr. Lillie or Dr. Farzan and should include a CV, a copy of undergraduate transcripts, names of three references, and a cover letter stating interest in the above-mentioned areas.

Dr. Brandon Lillie
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Dr. Vahab Farzan
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Inquiries about the research and/or the specific project should be directed to Dr. Lillie or Dr. Farzan.

Further inquiries related to general application procedures can be directed to Mrs. Donna Kangas, Graduate Program Assistant, Department of Pathobiology, University of Guelph, Guelph, Ontario, N1 G 2W1, Canada; phone 519- 824-4120 ext. 54725; e-mail: pathgrad@uoguelph.ca

The University of Guelph is committed to an Employment Equity Program that includes special measures to achieve diversity among its faculty and staff. We therefore particularly encourage applications from qualified aboriginal Canadians, members of the LGBTQIA community, women, veterans, persons with disabilities, and members of visible minorities.