DEPARTMENT OF PATHOBIOSIOLOGY
Ontario Veterinary College
University of Guelph

Pathobiology - Animal Health Laboratory
The new faculty is expected to contribute to the DVM, undergraduate and graduate courses taught by members of the Department of Pathobiology. In addition, the successful candidate will contribute to developing a new graduate program in Disease Informatics as well as to teaching graduate level courses in the area of Bioinformatics.

A "Food from Thought" initiative was recently launched at the University of Guelph. The goal of this initiative is to exponentially increase our ability to leverage big data for the benefit of food production and biodiversity at global, landscape and micro scales of research and innovation through strong multidisciplinary research. The successful candidate will work synergistically with the other faculty who are hired as part of this initiative.

Salary and rank are negotiable and commensurate with experience and qualifications.

**Application Process:** Assessment of applications will begin on December 7, 2018 and will continue until the position is filled. Interested applicants should submit the following materials as a single PDF file: (1) a cover letter; (2) a curriculum vitae; (3) names of three references. Applications should be sent to the attention of:

Dr. Shayan Sharif, Professor and Chair
Department of Pathobiology, University of Guelph
Guelph, ON N1G 2W1
shayan@uoguelph.ca

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

The University of Guelph acknowledge the Attawandaron people on whose traditional territory the University of Guelph resides and offer our respect to our Anishinaabe, Haudenosaunee and Métis neighbours as we strive to strengthen our relationships with them.

At the University of Guelph, fostering a culture of inclusion is an institutional imperative. The University invites and encourages applications from all qualified individuals, including from groups that are traditionally underrepresented in employment, who may contribute to further diversification of our Institution.
Established in 1862, the Ontario Veterinary College (OVC) at the University of Guelph is at the forefront of veterinary medicine. As the oldest veterinary college in North America, OVC has been preparing veterinarians to meet the needs of animal caregivers for more than 155 years. One-third of veterinarians in Canada have graduated from the Doctor of Veterinary Medicine program at OVC.

One of the founding colleges of the University of Guelph, OVC is the only veterinary college in Ontario and it is an integral part of one of Canada’s most highly regarded comprehensive universities. Our graduates are proven leaders and scholars, having high impact in the field of veterinary medicine and research; they build careers in universities, private practices, industry, government, and other related organizations around the world.

ABOUT THE ONTARIO VETERINARY COLLEGE

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As part of a top comprehensive university, OVC has a long history of solving complex health problems for both farm and companion animals. OVC is a fully accredited veterinary college and is ranked by Quacquarelli Symonds as first in Canada, third in North America and sixth in the world for veterinary science.

Today, the College is home to 116 faculty and veterinarians, as well as 183 regular full-time staff across four departments: Department of Biomedical Sciences; Department of Clinical Studies; Department of Pathobiology and the Department of Population Medicine; as well as the OVC Health Sciences Centre which houses the OVC Companion Animal Hospital; Large Animal Hospital; Isolation Unit; Hill’s Pet Nutrition Primary Healthcare Centre and the Mona Campbell Centre for Animal Cancer.

The OVC is fully accredited by the Council on Education of the American Veterinary Medical Association (AVMA) and the Canadian Veterinary Medical Association (CVMA). Our educational programs include the four-year professional DVM degree; BSc degrees with other colleges in Bio-Medical Sciences and Toxicology; graduate programs for graduate diploma (GDip), MSc, Master of Public Health (MPH), Master of Biomedical Sciences (MBS), PhD, and Doctor of Veterinary Science (DVSc) degrees; clinical specialists-in-training programs; and the Summer Career Opportunities and Research Exploration Program for DVM and BSc students. Students educated through OVC learn a comparative, cross-species approach to diagnostics, epidemiology, and preventive medicine to provide comprehensive, global solutions.
Research in the Department of Pathobiology addresses such diverse areas as the pathogens of animals and how they interact with their hosts, emerging and zoonotic pathogens, antimicrobial resistance, the immunologic and genetic bases of resistance to infectious disease, development and progression of cancer, and mechanisms of immune-mediated and inflammatory diseases. We work on diseases of domestic mammals, poultry, laboratory animals, fish, wildlife, zoo, and companion animals, from the molecular level to that of the population. We offer advanced training in diagnostic anatomic, clinical, and comparative pathology, as well as research training in our areas of expertise.

Presently, there are 24 faculty, 1 veterinarian, 42 staff members, and 98 graduate students who work in the new Pathobiology/Animal Health Lab building (built in 2010) located on the University of Guelph’s main campus in the heart of the City of Guelph.

The building provides excellent opportunities for scholarly collaborations. It is well-equipped with shared laboratories and state-of-the-art equipment for flow cytometry, fluorescence microscopy, quantitative PCR, next-generation sequencing, 2D gel electrophoresis, laser capture microdissection, and tissue microarray.

The facility also houses a 120-seat lecture theatre, two 60-seat seminar rooms, and a 60-seat teaching laboratory as well as department offices, research laboratories and the University’s Animal Health Laboratory.

ABOUT THE DEPARTMENT OF PATHOBIOLOGY

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GRADUATE STUDIES

The Department of Pathobiology offers research-based MSc or PhD degrees to both veterinarians and non-veterinarians in all fields of study in the department. Veterinary specialty training is offered through DVSc and graduate diploma programs in anatomic pathology, clinical pathology, comparative pathology, laboratory animal science, fish disease, and zoo medicine/pathology.

Graduate students typically continue their career in a diversity of positions, including academia, the public sector in Canada (provincial and federal government) and abroad, private industry and laboratories, as well as in specialty practice.
October 2018:
29 open tri-council grants ($7,248,464)
81 open other grants ($7,371,755)
77 registered graduate students
117 publications 2018 year-to-date

Summary of teaching:
Faculty in the Department of Pathobiology teach in over 30 veterinary, undergraduate and graduate courses, and are engaged in curricular development. Pathobiology faculty are frequent recipients of teaching awards.

Summary of professional involvement:
Departmental faculty are highly engaged with their professional organizations and include the Editors-in-Chief of “Veterinary Pathology” and the “Canadian Journal of Veterinary Research”, an Associate Editor of “Veterinary Immunology and Immunopathology”, and the Presidents elect of the American College of Veterinary Pathologists and the World Veterinary Association.

RESEARCH, TEACHING AND SERVICE

Faculty within the Department of Pathobiology play key roles in a number of strategic initiatives at the University of Guelph including the:

Animal Health Laboratory partners with the faculty in the Department of Pathobiology as the laboratory of choice for government and universities in Canada, for agriculture, food safety, and animal health testing. As a partner, they provide high-value laboratory services to the private sector in selected markets.

Canadian Wildlife Health Cooperative was founded in 1992 and has four main objectives: health surveillance, education, research, and management. This group spans across Canada and researchers collaborate to address various health issues associated with the wildlife health population. The post mortem results are entered into a national database, which provides researchers the opportunity to track the spread of various diseases.

Centre for Cardiovascular Investigations has broad interests that span the spectrum of cardiovascular medicine and science with a goal of understanding the mechanisms behind heart disease and to develop new therapies for the treatment of cardiovascular disease.

Centre for Public Health and Zoonoses (CPHAZ) was established in 2006 to recognize and build on the strong tradition of public health research and education at the University of Guelph. The role of CPHAZ is to coordinate existing public health research at the University of Guelph, create and support working relationships between researchers across disciplines, and advance education related to zoonoses and public health.

Institute for Comparative Cancer Investigation, which was launched in 2007, has the mission to broaden the scope of research and deepen our understanding of cancer. Collaborative researchers with the Institute span eight departments across the University including cancer biologists, veterinarians, chemists, mathematicians, computer scientists, toxicologists, psychologists, and others including from external organizations like the University of Waterloo and the University of Toronto.

Poultry Health Research Network, which is a multifaceted network of 38 experts who collaborate to solve basic and applied issues related to poultry health, production and welfare, as well as industry-relevant issues relating to the environment, food safety, and outreach.

Toronto Zoo collaborates closely with the Department of Pathobiology through its graduate program in Zoological Medicine and Pathology. The Doctor of Veterinary Science program is a clinical doctoral program unique to the OVC.

PARTNERSHIPS
The University of Guelph is the largest employer in Guelph, a city of approximately 130,000 people, located about an hour drive west of Toronto, Ontario. University of Guelph is a top-ranked comprehensive university in Canada with an enrolment of about 28,000 undergraduate and graduate students across approximately 40 academic units. The University is known for its commitment to student learning, innovative research, and collaboration with world-class partners. It is a unique place, with transformative research and teaching and a distinctive campus culture. People who learn and work here are shaped and inspired by a shared purpose: To Improve Life. Reflecting that shared purpose in every experience connected to our university positions us to create positive change, here and around the world. Our University community shares a profound sense of social responsibility, a drive for international development, and an obligation to address global issues.

Learn more: www.uoguelph.ca/facultyjobs

“We have the opportunity and responsibility to improve the lives of individuals, our communities and the world around us. That's important. That's exciting. Let us take what is best about the University of Guelph and share it around the world.”

~ President Franco Vaccarino.