



*Laboratory of Nutritional Ecology, Centre for Nutrition Modeling (CNM) Department of Animal and Poultry Science (APS), Ontario Agricultural College (OAC)*

## **A Post-doctoral Fellowship or a Visiting Research Fellowship**

A post-doctoral fellowship or visiting research fellowship is now available for up to a 2-year term in the area of metagenomic discovery and characterization of novel gut symbiotic bacterial hemi-cellulase and cellulase genes at the University of Guelph, Ontario, Canada. This research topic is in a strategically important area with potential implications and contribution to the development of industrial enzymes and bioeconomy.

A successful candidate is expected to have strong interests and desire in independently conducting original research in the topic area, be familiar with related current research topic literature and be effective in both oral and written English communication. Other technical quality requirements include microbial DNA extraction, agarose gel work, PCR work, construction of microbial metagenomic DNA library, DNA library screening, positive clone screening, primer design, DNA insert check, bacterial culture, and substrate induction of target bacterial genes such as by using congo-red staining and enzyme activity assay. These scientific expertise and quality should be reflected by having a track record of one or more peer-reviewed publications published or accepted for publications in international journals.

A well established integrative systems animal biology, cellular and molecular research facility is available in our laboratories. We have access to advanced genomics (<http://www.uoguelph.ca/~genomics>) and molecular biology (<http://www.uoguelph.ca/labserv/>) facilities on our campus. High-throughput metagenomic sequencing research facility is also available at about 1-hr away in the Centre for Applied Genomics (TCAG) (<http://www.tcag.ca>) at the Hospital for Sick Children in Toronto.

The salary level and related fringe benefits for the position will be determined on the basis of the background and experience of a successful candidate and the project fund availability by following the university policy. Interested candidates should contact or submit their application with a short resume to: Professor Ming Z. Fan, room 250, Department of Animal and Poultry Science, University of Guelph, Guelph, ON, Canada N1G 2W1; E-mail: [mfan@uoguelph.ca](mailto:mfan@uoguelph.ca).

