



## POSITION ANNOUNCEMENT

- TITLE:** Post-Doctoral Research Associate  
- Genomic factors of resistance to bovine paratuberculosis
- LOCATION:** Dairy & Swine Research and Development Center  
Agriculture and Agri-Food Canada
- ORGANISATION:** Agriculture and Agri-Food Canada research branch is involved in research and development of knowledge and in technology transfer activities with a view to supporting the development of sustainable and competitive dairy and pork industries consisting of healthy animals that produce safe, high-quality products for consumers.
- RESPONSIBILITIES:** One of the goals of modern genomics is to associate important genes and their variants (or genotypes) with traits (or phenotypes) of interest. The present project will address one important aspect of Map infection: genetic susceptibility to progress to the Map-shedding stage (fecal excretion) and to progress into clinical stage. Because classification is challenging in a cross-sectional study, this longitudinal study will provide the ability to define the infectious/exposed to MAP status by repetitive testing using ELISA and fecal PCR detection. Study of the dynamics of Map-specific immune responses has recently forced a reconsideration of the Th1/Th2 switch paradigm. The present project will address the genetic component of the immune response through a better understanding of host-pathogen interaction.
- REQUIREMENTS:** Interest and knowledge of mycobacterial pathogens and genetic analysis; ability to perform molecular biology or genomics analysis; proficiency in molecular techniques; ability to work independently and as part of a research team; excellent oral and written communication skills; cheerful disposition.
- QUALIFICATIONS:** The incumbent should have a Ph.D. in Genetics/Microbiology/Biochemistry or related area with a strong background in molecular biology and an interest in genomics research.
- SALARY:** Competitive salary with an attractive fringe benefit package.
- APPLICATION DEADLINE:** Applications will be reviewed beginning August 1, 2014 and continue until a suitable candidate is identified.

Applicants should submit a detailed curriculum vita; a letter of research and career interests; and arrange to have three letters of reference sent to:

**Dr. Nathalie Bissonnette, Agriculture and Agri-Food Canada  
Research Scientist - Adjunct Professor (Université de Sherbrooke)  
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