

Post-Doctoral Position: Population Genomics of the Mountain Pine Beetle System

Department of Biological Sciences - University of Alberta

Position duration – until Dec 31, 2009 with a strong possibility of extension

Closing date – open until filled

The Department of Biological Sciences has an opening for a Post Doctoral Fellow in the area of Population Genomics. You will become an integral member of a fast moving, multidisciplinary team researching the Mountain Pine Beetle (MPB) infestation in Western Canada. This research will be conducted in the laboratory of Dr. Felix Sperling and will involve collaboration with other project researchers. The successful candidate will possess a doctoral degree in molecular biology, quantitative genetics, bioinformatics, or a closely related field. Knowledge and experience in single nucleotide polymorphism (SNP) identification, re-sequencing and typing, or association and QTL analysis is required. Related experience with insects and/or plants is preferred. You will be responsible for:

- 1) Identification of candidate genes with potential adaptive significance for interacting biological organisms in the MPB infestation from project EST libraries;
- 2) *In silico* identification and validation of SNPs within candidate genes;
- 3) Genotyping and association and QTL analysis of interacting biological organisms using identified SNPs
- 4) Supervising research personnel in a laboratory setting.

Interested individuals should submit an application package (cover letter and curriculum vitae) and arrange to have three sealed letters of reference forwarded to the address below. In accordance with University of Alberta Policy, applicants should have no more than three years' post doctoral experience. Salary is commensurate with experience. Electronic applications are preferred.

Matt Bryman
Project Manager
The Tria Project: Mountain Pine Beetle System Genomics
CW 405 Biological Sciences Building
University of Alberta
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Email: mbryman@ualberta.ca

We thank all applicants for their time and effort, but only those selected for an interview will be contacted.

Additional Information

Dr. Felix Sperling is a Professor in the Department of Biological Sciences and specializes in population genetic surveys, species delimitation and related analyses in insects, including bark beetles.

(http://www.biology.ualberta.ca/faculty/felix_sperling/)

Department of Biological Sciences – <http://www.biology.ualberta.ca>

Postdoctoral Fellows Office - <http://www.postdoc.ualberta.ca>