

**We are seeking candidates in anticipation of the following postdoctoral opportunity...**

**Postdoctoral position: Molecular breeding specialist in oat**

**Location:** Agriculture and Agri-Food Canada (AAFC), Winnipeg, Manitoba, Canada.

**Dates of tenure:** Starting ASAP for 1 year, renewable.

**Stipend:** \$47,234 per year

Responsibilities: You will become familiar with oat germplasm and oat breeding objectives in western Canada, interacting closely with international collaborators as well as project members located at another AAFC center. You will develop an inventory of marker-trait associations in oat from a variety of public and in-house data sources, and you will apply various criteria to prioritize these for use in the Winnipeg oat breeding program. You will develop protocols, milestones and testable hypotheses for applying trait-associated markers in a selected set of oat breeding populations, and you will supervise the execution of these strategies with assistance from breeding and laboratory technicians. You will publish results from this work, and collaborate on other projects and publications involving marker-trait associations and molecular breeding.

Opportunities: This will be an excellent career building opportunity. You will interact with international collaborators in an extended set of projects related to this work. You will learn and apply diverse skills in bioinformatics, genomics, and molecular plant breeding. You will have opportunities to learn and assist with other research in high-throughput DNA sequence analysis, marker design, genetic association mapping, plant breeding, and grain quality analysis. The AAFC centre where you will work provides opportunities to interact with world class scientists in diverse areas of agricultural research.

Qualifications: As the ideal candidate you will be an excellent communicator with good organizational skills and a demonstrated ability to publish your work. You will have both knowledge and experience in many of the following areas:

- genetic and genomic analysis
- hands-on laboratory work related to DNA-based markers
- experience with computer software (spreadsheets, database) and common bioinformatics tools

Eligibility and Application: You must have received a doctoral degree in the natural sciences or engineering from a recognized university within the past five years.

Interested candidates must meet the requirements to qualify as an NSERC Visiting Fellow as outlined on the NSERC website ([http://www.nserc-crsng.gc.ca/Students-Etudiants/PD-NP/Laboratories-Laboratoires/index\\_eng.asp](http://www.nserc-crsng.gc.ca/Students-Etudiants/PD-NP/Laboratories-Laboratoires/index_eng.asp).) Interested candidates should send a recent CV and a letter describing your interests and qualifications to:

Jennifer Mitchell Fetch  
Research Scientist - Oat Breeder  
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Cereal Research Centre

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