Job Opening

Post Doctoral Fellow, Crop Genomics & Resistance Breeding - Requisition No 31913

Location :	Full Time :	Posting End Date :
Plant Science	Yes	Apr/20/2024
Expected Start Date :	**Permanent :**	
May/01/2024	No	

Job Description :

Department of Plant Science
Faculty of Agricultural and Food Sciences
University of Manitoba
Winnipeg, Manitoba, Canada
Position # 21668

The Department of Plant Science invites applications for Postdoctoral Fellow in Crop Genomics and Resistance Breeding, commencing May 1, 2024, or on a date mutually agreed upon for a term of 3 commensurate with qualifications and experience.

This research aims to tackle the devastating effects of Fusarium Head Blight (FHB) on durum wheat by employing innovative genomic techniques to identify new resistance alleles. The project encom assembly, targeted sequencing of resistance QTLs, and the development of high-throughput markers for breeding programs.

Responsibilities :

Duties for the position include - Conduct high molecular weight DNA isolation and library preparation for Oxford Nanopore Technologies (ONT) sequencing; Generate and analyze ONT sequencing da polymorphisms associated with FHB resistance; Develop and evaluate competitive Allele-Specific PCR (KASP) or PCR markers for marker-assisted selection; Collaborate with a multidisciplinary team breeders to integrate findings into durum wheat breeding programs; Contribute to the preparation of research publications and presentations for scientific conferences.

Qualifications :

The ideal candidate must have a PhD in Plant Science, Genetics, Genomics, Bioinformatics, or a related field. The candidate must have experience with next-generation sequencing technologies, pa sequencing platforms such as PacBio or ONT, have a strong background in bioinformatics and data analysis, excellent communication skills, both written and verbal, the ability to work independently a multidisciplinary team. Familiarity with molecular breeding techniques and marker development is highly desirable.

Additional Information :

The Department of Plant Science offers educational and research programming across areas such as sustainable cropping systems, agronomy, plant physiology, breeding and genetics. Since 1937, v internationally recognized for plant science research and are proud to be the home of the first canola variety ever developed.

Candidates are asked to submit a cover letter, CV, and degree certificate.

Please forward applications by email to Dr. Harmeet Chawla at harmeet.chawla@umanitoba.ca. Closing date is April 20, 2024.

Formal review of applications will begin April 21 , 2024 and will continue until filled.

If you require accommodation supports during the recruitment process, please contact UM.Accommodation@umanitoba.ca or 204-474-7195. Please note this contact information is for accommodatio

Application materials, including letters of reference, will be handled in accordance with the protection of privacy provision of The Freedom of Information and Protection of Privacy Act (Manitoba). Plea vitae may be provided to participating members of the search process.

The University of Manitoba is committed to the principles of equity, diversity & inclusion and to promoting opportunities in hiring, promotion and tenure (where applicable) for systemically marginalized excluded from full participation at the University and the larger community including Indigenous Peoples, women, racialized persons, persons with disabilities and those who identify as 2SLGBTQIA+ (bisexual, trans, questioning, intersex, asexual and other diverse sexual identities). All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given

About UM:
The University of Manitoba is a driving force of innovation, discovery and advancement. Our momentum is propelled by our campus community - UM faculty, staff and students whose determination a world for the better. Our teaching, learning and work environment is uniquely strengthened and enriched by Indigenous perspectives. With two main campuses in Winnipeg, satellite campuses throug wide research, UM's impact is global.

Discover outstanding employee benefits, experience world-class facilities and join a dynamic community that values reconciliation, sustainability, diversity, and inclusion. We are one of Manitoba's Top Canada's Best Diversity Employers. At the University of Manitoba, what inspires you can change everything.

The City of Winnipeg (www.tourismwinnipeg.com), located where the Red and Assiniboine Rivers meet, is recognized for its vibrant, multicultural community and diverse culture. The city, with a growi than 766,000, is home to internationally renowned festivals, galleries and museums, the historic Exchange District and The Forks, and ever-expanding research, education, and business sectors. Fro across the farmland fields, to the pulse of the cities and towns, The Province of Manitoba's (www.travelmanitoba.com) people and places - its 100,000 lakes, 92 provincial parks, winding river valleys a inspire.

Apply