Position: Postdoctoral Research Fellow in Breeding and phenomics of quantitative disease resistance in pulse crops (Full time).

The FRQNT-MAPAQ funded project: "ImPULSE: a transdisciplinary project in technological development for the sustainable production of plant proteins in Quebec" has an opening is for a highly motivated postdoctoral research fellow with expertise in one or more of the following areas: genetics, genomics, population genetics, molecular biology, quantitative genetics, plant research, field research.

All candidates must have received a Ph.D. in a relevant field.

Interested candidates please contact Valerio Hoyos-Villegas at Valerio.hoyos-villegas@mcgill.ca Applications should include: a cover letter, a brief description of past research accomplishments and future research goals, CV, and contact information for three references.

The postdoc will be based at McGill University, Macdonald Campus will have access to all the resources available through the Plant Science Department. The position is available for one year with the possibility of renewal for a second, third and fourth year and will include competitive salary and full benefits. To learn more about the Pulse Breeding Lab, visit our webpage (www.pulsebreeding.ca).

Basic Qualifications:

- Ph.D. in plant breeding, plant pathology, bioinformatics, quantitative/statistical/population genetics, phenomics, or a related discipline.
- Experience with project management and experimental design.
- Demonstrated expertise analyzing highly-dimensional genomic and phenomic datasets.

Responsibilities:

- Collaborate with a large and diverse team of researchers to develop phenomics and genomics tools in the development of agronomic traits and durable disease resistance to white mold in common bean.
- Supervise technical staff/teams/students.

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- Assist with permitting and reporting to state authorities and funding agencies.
- Produce peer-reviewed publications and develop grant proposals for additional funding for research, education, and outreach activities.
- Work with the team to create outreach and education publications.

A successful applicant will have most of the following:

- Plant pathology experience is highly desirable.
- Independent research experience.
- Bioinformatics, or statistical genetics experience.
- Field and greenhouse research experience.
- Able to organize, multitask time efficiently and work both independently and collaboratively within a multidisciplinary and interactive research environment.
- Advanced knowledge of quantitative, population, and statistical genetics with experience in training and using genomic prediction models. Genetic or molecular lab experience desirable.
- Excellent communication skills, both written and oral.
- Effective writing and communication skills, meticulous record keeping.
- Evidence of capacity for program management, collaborative research, and interactions with stakeholders.