

Funded M.Sc. Position in Crop Pest Management Science

A funded M.Sc. position is available at Brandon University in collaboration with Assiniboine College under the co-supervision of Dr. Baljeet Singh and Dr. Bryan Cassone. The successful candidate will investigate and Develop a Fungicide Resistance Monitoring and Reporting System for Group 11 Fungicides in Pulse Crops (Peas) for Manitoba Pulse and Soybean Producers. The anticipated start date is Summer or Fall 2026.

Widespread insensitivity to all strobilurin actives (Group 11 fungicides) has been confirmed on the Prairies (BASF Research). The Applied Research Team (ART) at Assiniboine College has been conducting product fungicide efficacy evaluation trials for peas targeting *Mycosphaerella* blight since 2022. The research trials confirm that Group 11 resistance is on the rise, with 20% of samples detected positive in Roblin, MB in 2022. In 2023 and 2024, 24.8% and 48.3% of samples were detected positive in Portage la Prairie, MB. Group 11 resistance is sporadic but on the rise; there is a need to conduct a province-wide detection and monitoring system to track and mitigate the development of resistance. Based on the preliminary data collected, this two-year research project will establish a comprehensive fungicide resistance monitoring and reporting system for Group 11 fungicides in Manitoba, along with development of a detection method at Brandon University. This project will involve resistance detection (monitoring), mapping resistance trends (tracking), and developing a reporting platform (education and skill development) for pea growers to receive real-time data on resistance patterns and management strategies. This project funded by Manitoba Pulses and Soybean Growers (MPSG).

Applicants should hold a B.Sc. degree in Environmental Science, Agriculture, Agronomy, or a related field, and demonstrate strong interest in Crop Pest Management Research. Interested candidates should submit a brief statement of research interest and a current resume/CV.

Both Canadian and international students are encouraged to apply.

Applications and inquiries should be directed to:

- **Dr. Baljeet Singh (singhb2@assiniboine.net)**
- **Dr. Bryan Cassone (cassoneb@brandonu.ca)**

Important Dates

- Closing Date: Open until filled
- Start Date: Summer 2026 or Fall 2026



**BRANDON
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Pulse Soybean
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