

**DALHOUSIE UNIVERSITY
FACULTY OF AGRICULTURE**

M.Sc. Graduate Student Assistantship

Project: Management of powdery mildew and downy mildew disease of grapes using natural elicitors

Supervisor: Dr. Balakrishnan Prithiviraj, Department of Environmental Sciences, Faculty of Agriculture, Dalhousie University

Location: Truro, Nova Scotia, Canada

Project: Powdery mildew and downy mildew are major diseases that affect productivity of grapes in Nova Scotia. The management of these diseases is a challenge due to high cost of fungicides, development fungicide resistance in pathogens and the negative impact of fungicides on human health and the environment. Research at the Marine Bioproducts Laboratory has shown that chemical constituents of marine macro-algae (seaweed) are potent elicitors of pathogen resistance in plants. This project will evaluate novel seaweed based elicitor formulations to induce resistance in grapevine against powdery and downy mildew disease. The successful candidate will conduct research in laboratory and in vineyards in Annapolis valley region of Nova Scotia.

Qualifications: Applicants must have a B.Sc. in Agriculture, biology or related discipline and meet all the admission requirements to the M.Sc. program.

Successful candidate will register for Fall 2019 term (However, he/she can start work during summer 2019)

Stipend: \$21,000/year for two years

To Apply: For admissions information and application, refer to the following website:

<http://www.dal.ca/faculty/agriculture/programs/graduate-studies.html>

Send supplementary application materials, e.g. CV, letter of intent and transcripts (**also application and references if not applying online**) directly to: Graduate Secretary, Dalhousie University, Faculty of Agriculture, 62 Cumming Drive, Truro, NS B2N 5E3, CANADA.
e-mail: gradadmissions.agr@dal.ca

For further information about the research project, contact Dr. Balakrishnan Prithiviraj (bprithiviraj@dal.ca)