

DALHOUSIE UNIVERSITY
FACULTY OF AGRICULTURE, DALHOUSIE AGRICULTURAL CAMPUS
M.Sc. Agriculture
Development of nutrient deficiency sensing technology in potato fields

Supervisor: Dr. Ahmad Al-Mallahi, Digital and Autonomous Agricultural Technology,
Department of Engineering, Faculty of Agriculture, Dalhousie University

Location: Truro, Nova Scotia, Canada

Project: Nutrients are applied in potato field at different stages of potato cultivation season. During the growing season, farm operators scout the field searching for deficiency symptoms and taking samples for laboratory analysis. In this project, we aim to improve scouting by developing intelligent sensing that can find symptoms and advise on sampling locations so that scouting will become less expensive and more accurate. A candidate for this program is expected to develop sensing technology using techniques such as image processing and to handle big data collection from the sensors and laboratory tests.

Qualifications:

1. B.Eng. degree in mechanical, electrical, biosystems, or agricultural engineering
2. Meeting all the admission requirements to the M.Sc. program of Dalhousie University
3. Relevant research experience and knowledge about digital communication systems, agricultural machinery or machine vision will be considered as an asset.
4. Demonstration of oral and written communication skills and teamwork skills

Application period: July 25 2019 ~ November 25 2019 or until a suitable candidate is found

Stipend: \$22,500 –\$24,000 / year for 2 years

For admissions information refer to the following website:

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

For preliminary evaluation send a cover letter, C.V., and transcripts to ahmad.almallahi@dal.ca