

M.Sc. or Ph.D. in Agriculture or Engineering  
Graduate Student Assistantship

### **DMD-based hyper-/multi-spectral image processing**

Supervisor: Dr. Young K. Chang, Department of Engineering, Faculty of Agriculture, Dalhousie University

Location: Truro, Nova Scotia, Canada

Project:

#### **Improving Yield and Grape Phenolic Content Estimation Using Aerial and Ground-based Multispectral Imagery**

Qualifications: Applicants must have understanding in microprocessor, computer programming, hyper-/multi-spectral imaging processing, modeling, and/or mathematical analysis. Undergraduate with a minimum GPA of 3.7/4.3 or graduate degree in engineering or science is required. Knowledge in design, modeling, and precision agriculture is desirable. Experience in use of agricultural machinery and/or integration of instruments and a valid driver's license would be considered as a great asset. Knowledge of digital light processing and digital micromirror device (DMD), FPGA, Machine Learning and/or Use of Aerial and Ground-based Hyperspectral/Multispectral Imagery would be a strong asset. Strong written and oral communication skills are important.

Starting Date: May or September 2019

Stipend: Maximum \$27,500 to Minimum \$17,500 per year with scholarship matching for two years. Qualified individual will have the opportunity to apply for an NSGS scholarship, Killam, NSERC-IPS (<http://www.nserc.gc.ca>) postgraduate fellowship, etc.

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](mailto:gradadmissions.agr@dal.ca)

For further information about the research project, please visit web site (<https://www.dal.ca/faculty/agriculture/engineering/faculty-staff/our-faculty/young-ki-chang.html>) and contact Dr. Young Chang ([youngchang@dal.ca](mailto:youngchang@dal.ca))