



MSc Position – Cannabis production

University of Guelph

School of Environmental Science (SES)

Controlled Environment Systems/Controlled Environment Systems Research Facility (CESRF)

POSITION: MASTER OF SCIENCE STUDENT IN PLANT PHYSIOLOGY / HORTICULTURE

ADVISOR: DR. MICHAEL DIXON

START: JANUARY 2019

DURATION: TWO YEARS

STIPEND: AVAILABLE

Project Description

A M.Sc. studentship is available involving research at The University of Guelph's Controlled Environment Systems Research Facility (CESRF) (www.ces.uoguelph.ca) in collaboration with Vivo Cannabis Inc (www.vivocannabis.com), and potentially funded by the Natural Sciences and Engineering Research Council (NSERC) (www.nserc-crsng.gc.ca).

The CESRF is an essential part of Canada's contributions to plant research and technology development for human space exploration and closed environment related activities, and provides a comprehensive research venue for measurement of plant growth in a precisely controlled environment. VIVO Cannabis is a vertically integrated global cannabis business with its head office and primary production facility located in Napanee, Ontario.

After four years of cannabis production research at Vivo's Napanee facility and graduation of the first three advanced degree students (PhD, MSc) trained specifically in cannabis production in North America, Vivo and the CESRF are advancing our research initiatives and are looking for a new student to continue the research program. The student will examine plant growth and productivity, nutrient uptake and secondary metabolite production (THC, CBD, terpenes) in response to LED lighting 'recipes' developed specifically for cannabis R&D. This research is being undertaken in order to better understand plant development and to improve plant performance throughout the cannabis growth cycle. Objectives are to improve operational productivity using custom designed photosynthesis research chambers developed by UG/CESRF now installed at VIVO's UGuelph research lab in Napanee.

Pre-requisites: B.Sc. in horticulture, plant physiology, molecular biology, biochemistry or other appropriate field. Experience in controlled environment plant production, vertical farming or greenhouse operations would be beneficial but is not required.

Note: This position is subject to budgetary approval and is expected to begin in the winter semester (January, 2019).

Graduate Student Role & Responsibilities

The graduate student will work closely with their advisor(s) to design and implement experiments that will address the goals and objectives of the project. Course work will be required; the nature of those courses will be determined based upon experience and background. The graduate student is obligated to meet the codes of conduct set out by the university, the school, and the faculty advisor. All safety training will be provided.

Stipend & Awards:

The standard University of Guelph, SES stipend rate will apply. The successful candidate will be encouraged (and mentored) to apply for a range of scholarships. Please note that due to funding limitations, this position is open to eligible **domestic candidates only**. Only successful applicants will be contacted for an interview. Position to remain open until a suitable candidate is found.

To Apply, please send cover letter, resume/CV, a sample of your written work (e.g., undergraduate written report) and a copy of your unofficial undergraduate transcript to:

Theresa Rondeau Vuk
CESRF Program Manager
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