MSc Opportunity in Plant Ecophysiology

Grad Student Position Details

Project Title
MSc Opportunity in Plant Ecophysiology

Degree Program
MSc

Supervisor Co-supervisor
Dr. Uwe Hacke Dr. Joan Laur

Department
University of Alberta, Renewable Resources

Project Start Date
01/01/2020 or 05/01/2020

Project Description:

The successful student will study the uptake of water and other elements via plant roots. We hypothesize that this uptake is dynamically controlled via aquaporins (membrane-based water channels) and other root responses. Understanding how plants control water / element uptake is important from a fundamental plant science perspective; it is also important in the context of phytoremediation.

The student will study at the University of Alberta (for coursework) and will also conduct research in the Botanical Garden in Montreal. The Garden has research facilities that can be used for this work.

We are looking for a student with some basic knowledge of plant science and a keen interest in ecophysiology, molecular biology, or anatomy.

Anticipated start date is either January or May 2020.

Keywords
Root water uptake, phytoremediation, plant-environment interactions, roots, plant ecophysiology

Contact Emails
uwe.hacke@ualberta.ca

joan.laur@umontreal.ca