

# **MSc Opportunity in Plant Ecophysiology**

## **Grad Student Position Details**

### **Project Title**

MSc Opportunity in Plant Ecophysiology

### **Degree Program**

MSc

### **Supervisor**

Dr. Uwe Hacke

### **Co-supervisor**

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**

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