

## **PhD RESEARCH PROJECT – PHYTOTECNOLOGY AND ROADSIDE VEGETATION**

### **Context**

Road infrastructures are an important cause of landscape fragmentation. A direct consequence of this is the alteration of storm water runoff regimes. To control storm water volume and flow, roadside vegetation can be useful. Storm water management by vegetation is vital to user safety but also to maintain water quality. However, efficiency of roadside vegetation for storm water management is poorly documented.

### **Project description**

Under the supervision of the principal investigators together with the Quebec Transport Ministry, the PhD student will first assess the effects of roadside vegetation management on volume and quality of storm water reaching ditches. In a second step, the PhD student will make recommendations on the improvement of storm water management based on phytotechnologies.

### **Eligibility criteria**

Applicants must have completed a Masters degree (or exceptionally a Bachelor degree) in biological sciences, environmental sciences or a related field. They must also show a strong interest in phytotechnology and scientific research. The successful candidate must be ready to begin the PhD research program by September 2018.

### **Funding and work conditions**

The successful candidate will be granted a three-year scholarship of \$63,000 CAN (\$21,000 CAN per year). The successful candidate will be provided a workspace at the Institut de recherche en biologie végétale (IRBV), and will work under the supervision of Professors Jacques Brisson and Danielle Dagenais, together with a representative from the Quebec Transport Ministry.

### **Selection process**

To apply, please send the following documents by email to Pr. Jacques Brisson ([jacques.brisson@umontreal.ca](mailto:jacques.brisson@umontreal.ca)):

- A cover letter describing your interest for the project
- Your CV (up to date), including publications if appropriate
- A copy of your most recent academic transcript
- The names and contact information, such as academic supervisors, for two references

Also, please consult the Chair's website (<http://chairephytotechnologie.com/en/>) for more information concerning the ongoing research projects.