

## **ECOPHYSIOLOGY OF SUGAR MAPLE – PhD and Master position at UQAC**

**BACKGROUND** – Plants synchronize their physiological processes with the local climate

combining the acquisition of resources with frost damage avoidance. All biological events

in trees have a distinct cyclic profile described by phenology. Their activity is mainly concentrated over well-defined time windows, when local climatic conditions are favourable.

**OBJECTIVE** – A number of projects are available, which involve sugar maple phenology and the biological events across the year and at different temporal resolutions. In particular, we

aim to (1) investigate the functional traits of provenances originating from the native range

of the species and growing in common gardens, and (2) to assess and explain the dynamics

of sap production and its relationships with the climatic factors.

**FRAMEWORK** – Students will enroll in the Master in Ressources Renouvelables or the PhD

in Biology at the Université du Québec à Chicoutimi (UQAC). Through its innovative research

niches, the laboratory has developed a leadership in the field of tree phenology and forest growth, which has generated a large network of international collaborations worldwide.

Therefore, the candidate will walk in an enriching research environment, and benefit from

the experience of several researchers and other graduate students.

**REQUIREMENTS** – The candidate must have completed a bachelor or Master in forestry,

biology, or a related discipline. He/she must have good knowledge in data analysis, skill in

writing, and the ability to work autonomously. Also if the main language for research will be English, a sufficient knowledge of French is compulsory for Master students.

**START** –summer or autumn 2020

**SCHOLARSHIP** – a minimum of 15,000 or 22,000 \$/yr for Master or PhD, respectively

**SUPERVISION** – Sergio Rossi ([www.cefcfr.ca/index.php?n=Membres.SergioRossi](http://www.cefcfr.ca/index.php?n=Membres.SergioRossi), and <http://www.uqac.ca/portfolio/sergiorossi/>)

Candidates can send one pdf-file including cover letter, curriculum vitae, transcripts, and the names and contact details of two references to [sergio.rossi@uqac.ca](mailto:sergio.rossi@uqac.ca)