Methane reduction using Biowindows

Record number : OPR-879

Overview

RESEARCH DIRECTION

Vanessa Di Battista, Professeure - Department of Civil and Building Engineering

INFORMATION

vanessa.di.battista@usherbrooke.ca

RESEARCH CO-DIRECTION

Federico Galli, Professeur - Department of Chemical and Biotechnological Engineering

INFORMATION

federico.galli@usherbrooke.ca

ADMINISTRATIVE UNIT(S)

Faculté de génie
Département de génie civil et de génie du bâtiment

LEVEL(S)

2e cycle
3e cycle

LOCATION(S)

Campus de Sherbrooke

Project Description

We are seeking students (MASc or PhD) for a field and laboratory study of methane oxidation systems in landfills. It is proposed to design and construct novel methane oxidation systems for the reduction of residual methane emissions caused from degradation of waste in landfills. The project will include the design, material analysis, installation, monitoring, and the data collection and analysis of engineered biosystems for methane reduction. We are seeking applicants who are passionate about developing sustainable solutions for complex problems.

Requirements:
Excellent academic record
Background in civil or environmental engineering, geology, or a related field with background in soil science.
Basic French language competence

Located in Canada, in the Province of Quebec, the Université de Sherbrooke is a French-speaking institution that offers you the opportunity to benefit from an academic education that is recognized and valued around the world. The Université de Sherbrooke is host to more than 31 700 students from more than 80 countries (Source UdeS).

Interested candidates should send their CVs, academic transcripts, and an exemple of technical writing (e.g., journal/conference article) to Pre. Vanessa Di Battista with the subject line "Biowindows". Only selected candidates will be contacted.

This project can accommodate one or more students in the following programs:
- Doctoral thesis
- Research Master's thesis
- 3rd cycle research internship
- 2nd cycle research internship

Discipline(s) by sector

Sciences naturelles et génie

Génie civil

Funding offered

To be discussed

Partner(s)

Dillon Consulting , Environnement Canada , Valoris, Région municipale de Waterloo

The last update was on 28 September 2026. The University reserves the right to modify its projects without notice.