



## **Mining Engineering Professor - Environment and mine waste management**

**Job Reference Number:** 23-PR-4

**Posting/Closing Date:** November 14, 2023 to January 26, 2024

**Workplace:** All buildings

**Department or Service:** Department of Civil, Geological and Mining Engineering

### **WORK ENVIRONMENT**

Polytechnique Montréal is an internationally recognized engineering university. Located in the heart of Montréal on Mount Royal, it is renowned for the high quality of the training offered at all levels, and for its multidisciplinary and multisectoral research, at the forefront of the local, national and international engineering.

Approaching its 150<sup>th</sup> anniversary, it now welcomes more than 10,000 students and relies on the expertise of nearly 1,600 staff members with diverse skills, including more than 300 professors.

Polytechnique has been certified Gold by the STARS organization. Polytechnique is known for its innovative approach, and its active role in technological, economic, and social development. It values the diversity of its employees and adheres to an equal employment opportunity program for women, visible and ethnic minorities, Indigenous people and those with disabilities. Having received the Parity Certification from Women in Governance, it offers excellent working conditions, focusing on work-life balance and the well-being of its employees.

### **JOB DESCRIPTION**

Polytechnique Montréal's Department of Civil, Geological and Mining Engineering hosts around 1,200 students and 400 are graduate students. With 43 professors and three (3) full-time lecturers, the Department is a Canadian research leader in several sectors, such as transportation planning, structural and earthquake engineering, mining waste management, hydraulics, and drinking water and wastewater treatment. The Department also hosts several chairs and research groups, notably the MADITUC group (transportation), the Geothermal and Hydrogeology Group, CREDEAU (water management), the NSERC Industrial Chair on Drinking Water, the Canada Research Chair in Modelling Complex Hydro-Environmental Systems, the Canada Research Chair in Numerical Modelling and Experimental Simulation in Earthquake Engineering, the

Canada Research Chair on Personal Mobility, and the MOBILITÉ Research Chair on the Evaluation and Implementation of Sustainability in Transportation. The Department is a partner of the Research Institute on Mines and the Environment – RIME UQAT – Polytechnique.

The Department is seeking an applicant with qualifications and a particular interest and recognized expertise in the following areas: Mining engineering – Environment and mine waste management

- Geotechnics and mining hydrogeology;
- Design of infrastructures for mine waste disposal;
- Mine closure and reclamation.

The research work performed by RIME UQAT – Polytechnique being largely associated with mining operations in hard rock, the applicant should be familiar with related environmental issues and solutions applicable to base and precious metal mines.

## **RESPONSIBILITIES**

The successful candidate will carry out the responsibilities of this position with dynamism and creativity. Among other duties, they will:

- Demonstrate a commitment to excellence in teaching at the undergraduate, graduate and doctoral levels;
- Supervise undergraduate, graduate and doctoral students;
- Carry out innovative research projects;
- Obtain grants and contracts aimed at supporting research work with the aim of training highly qualified personnel;
- Publish the scientific results of this research;
- Participate in the department's teaching and research activities;
- Collaborate with other research teams at Polytechnique Montréal or other institutions;
- Contribute to enhancing Polytechnique Montréal's visibility and influence in Québec and internationally.

## **PROFILE AND JOB REQUIREMENTS**

The candidate will meet the following requirements:

- Hold a PhD in engineering or equivalent in a relevant field;
- Have a proven track record of developing and conducting an independent research program that will enable them to obtain funding to supervise graduate students;
- Demonstrate excellent teaching skills, if possible supported by teaching evaluations;

- Be able to contribute positively to the department's working environment and adhere to Polytechnique's values of excellence, creativity, integrity, collaboration, respect and openness;
- Be a member of the Ordre des ingénieurs du Québec (OIQ) or take the necessary steps to become a member before submitting their tenure application;
- Have a sufficient command of oral and written French before submitting their tenure file, since French is the language of instruction at Polytechnique Montréal.
- Polytechnique Montréal will provide the candidate with the necessary assistance and support to register with the OIQ and to learn French.
- Applicants with a bachelor's degree in engineering or with industry experience are encouraged to include this in their application.

## **ADVANTAGES OF WORKING AT POLYTECHNIQUE MONTRÉAL**

This position is tenure-track.

Salary and benefits are determined in accordance with the provisions of the [collective agreement](#) (*French only*) in effect. This agreement provides for, among others:

- Provisions for work-family balance, such as maternity, paternity and adoption leave, in addition to the [Québec Parental Insurance Plan](#);
- The possibility of benefiting from paid respite periods;
- A defined-benefits pension plan;
- In addition, relocation and immigration support is available to the successful candidate and their family.

To learn more about Polytechnique Montréal and the benefits of contributing to its mission, please explore: [Avantages et milieu de vie](#) (*French only*).

## **START DATE**

As soon as possible.

## **APPLICATIONS**

Candidates are invited to submit an application file that includes:

- A cover letter
- A CV
- A statement of main achievements and teaching philosophy
- A statement of major research achievements and prospects
- Proof of university degrees
- Up to three significant contributions related to the position
- Teaching evaluations, if available

For more information about this position, please contact:

Professor Richard Simon, Eng., Ph.D.

Chair of department

Department of Civil, Geological and Mining Engineering

E-mail : [candidaturescgm@polymtl.ca](mailto:candidaturescgm@polymtl.ca)

We encourage all qualified applicants to apply. In accordance with immigration rules, priority will be given to Canadians and permanent residents.