



Research Master's in Earth Sciences

Objectives

This program for earth science graduates is jointly offered by the INRS – Centre Eau Terre Environnement and the Geology and Geological Engineering Department at Université Laval. The objectives are to improve the students' general knowledge, their understanding of a particular field of geology, their experience in scientific research, and to adequately prepare them for a profession in geology or geological engineering.

Program outline

The curriculum comprises 45 credits out of which 13 are course credits. The thesis' work accounts for 32 credits and enables students to demonstrate their aptitude for research. The courses are offered in two concentrations: 1) Geoscience and resources, and 2) Environmental geoengineering. Every year, a field course in geology, geophysics, and hydrogeology is given alternatively in France and Quebec in collaboration with the Université de Rennes 1.

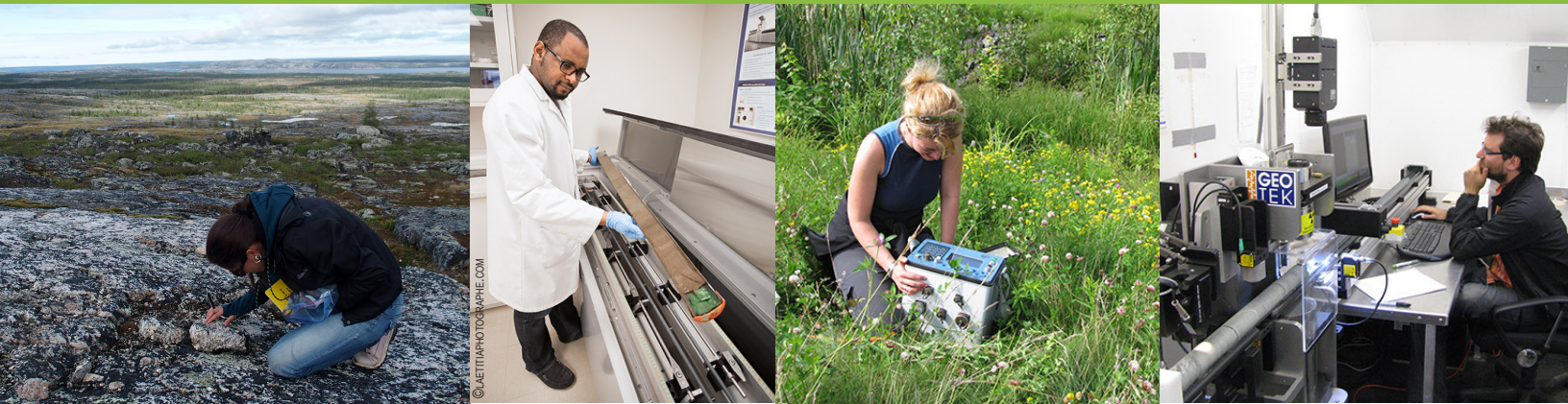
Scholarships are available to all registered students.

Detailed description of the program (only available in French):
www.inrs.ca/static/prog/ETE-MaitriseSciencesTerreAvecMemoire-3526-2.html

Admission requirements

The candidate must have a bachelor's degree, or equivalent, in earth sciences, geology, geological engineering, or a related discipline, with good academic standing, or alternatively have adequate knowledge, suitable training, and relevant experience. Courses are taught in French, hence knowledge of the language is required.

A professor from either INRS or Université Laval must have accepted to supervise the thesis.



Students' background and employment opportunities

Students in this program come from all fields of earth sciences, particularly from the fields of geological engineering, geology, and physical geography.

Geoscience research addresses several of the most important socio-economic issues that society currently faces: exploration and sustainable exploitation of mineral, energy, and groundwater resources, restoration of contaminated sites, and evaluation of the risks posed by natural hazards, all of which have employment opportunities for qualified professionals. The mineral, oil and gas industries, consulting engineering firms, government and municipal agencies responsible for land-use planning are a few examples of potential employers.

Examples of positions held in 2017 by graduates

Christophe Dimet (graduated in 2016)
Junior Exploration Geologist, Osisko Mining

Gabriel Rodrigue (graduated in 2016)
Project Officer, Progestech

Marie-Juliette Jouveau (graduated in 2014)
Environmental Specialist, Stantec

Benjamin St-Pierre (graduated in 2014)
Analyst and Head of Inspection and Control Division, Mining Rights Management Service, Ministère de l'Énergie et des Ressources naturelles du Québec

Rachel Thériault (graduated in 2014)
Environmental Specialist, Golder Associates

Charlotte Athurion (graduated in 2013)
Project Geologist, InnovExplo – Consultants–Mines–Exploration

Bastien Fresia (graduated in 2013)
Senior Mine Planner, Nantou Mining – Glencore Zinc, Burkina Faso

Benjamin Gosselin-Cliche (graduated in 2013)
College Professor, Department of Physics, Cégep Garneau