

SOIL SCIENCE

DR. ANNEMIEKE FARENHORST'S LABORATORY UNIVERSITY OF MANITOBA



IF YOU CHOOSE THIS LABORATORY, YOU WILL:

Spend a week in the life of a Soil Science student in Dr. Annemieke Farenhorst's laboratory and dig through the layers of the Soil and Water Research Laboratory. We work in harmony with First Nations communities to address critical issues in the areas of source water and drinking water quality.

You will get your hands dirty! Learn how to take water and soil samples for scientific experiments using the sampling pole; How to analyze for bacteria in water samples using a membrane filtration system; How to describe a soil profile; How to find nematodes (tiny!) in soils; How to measure water quality.

WHICH SCHOOL SUBJECTS ARE RELEVANT TO THIS LAB?

You will enjoy working in this lab, if you are interested in high school subjects like

- Geography
- Chemistry
- Biology

You can continue to learn more in your undergraduate studies by taking courses at university in

- Pesticides: Environment, Economics & Ethics
- Remediation of Contaminated Land

CAREERS THAT APPLY SOIL SCIENCE IN YOUR COMMUNITY:

- Coordinator of the Indigenous Collective, Lake Winnipeg Foundation
- Environmental Scientist
- Technical Marketing Agronomist
- Community Engagement Coordinator
- Chief Administrative Officer
- Environmental Officer
- Teacher
- Water Quality Adviser



Dr. Annemieke Farenhorst | annemieke.farenhorst@umanitoba.ca | Department of Soil Science
204-474-6858 | Soil and Water Research Laboratory | University of Manitoba | <http://umanitoba.ca/>

VERNA J. KIRKNESS



SCIENCE & ENGINEERING EDUCATION PROGRAM

CONNECTING STUDENTS FROM ACROSS CANADA

The Verna J. Kirkness Science and Engineering Education program offers scholarships to First Nations, Métis and Inuit grade 11 students to spend a week as a student researcher at a Canadian university, interacting with scientists in their research laboratories. During their week on campus the students have the opportunity to meet role models, learn about the support systems that are available to them on campus and experience the excitement of doing research. There are several participating universities across Canada, bringing together youth from all corners of the country to experience the unique learning experience the Verna J. Kirkness Science and Engineering Education program has to offer.



THE UNIVERSITY
OF BRITISH COLUMBIA



UNIVERSITY OF
CALGARY



UNIVERSITY OF
SASKATCHEWAN



FIRST NATIONS
UNIVERSITY
of CANADA



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