

BEAS (MSc, PhD)

Our M.Sc. and PhD programs in boreal ecosystems and agricultural sciences feature rigorous, hands-on study of resources and agriculture in the context of boreal ecosystems. The programs focus on the science and economics of plant, soil, land, and water resources.

Why study boreal ecosystems and agricultural sciences at Grenfell?

The demand for food and water security and sustainable forestry and agricultural practices is increasing. We've answered the global call for expertise and understanding of our boreal ecosystem. At Grenfell Campus, Memorial University, you'll be provided the opportunity to develop new technical knowledge and management skills, equipped with a strong focus on the science and economics of plant, soil, land and water resources in the context of sustainable boreal agriculture and forestry.

You'll use the laboratory and field equipment, techniques and protocols in Grenfell's new state-of-the-art Boreal Ecosystems Research Facility. You'll apply critical thought to community-engaged research and innovation under the supervision of world-class researchers. You'll get real-life experience in a boreal setting.

Boreal Ecosystem Research Facility

This 500 square-metre facility provides high-level research resources to support federal, provincial, university and private sector research priorities in forestry, agriculture and the environmental sector.

The development of this facility at Grenfell Campus is an essential element in a multi-faceted approach designed to build research capacity, create expertise in strategic sectors, attract highly qualified personnel to enhance Grenfell's teaching and research reputation, develop new graduate programs in environmental sciences, and attract an increasing number of new students. In May 2013, Memorial University signed a collaborative research agreement with Natural Resources Canada, regarding sharing of expertise and resources in the forestry field – an important step in fostering research partnership at Grenfell Campus.

The facility, with its three interconnected research laboratories, builds capacity in analytical research with a particular focus on soils, plants, air and water. The Boreal Ecosystem Research Facility lab can provide various analyses on samples from soil, water, and environmental wastes (elements, ions, pollutants etc.), as well as biology samples from plants, animals, and microbes (on nutrients such as amino acids, fatty acids, antioxidants, lipids etc., and DNA/RNA extraction). It supports the multi-discipline teaching and research at the Grenfell Campus of Memorial University and the collaborators in the community.

Courses and Program Requirements (MSc)

<https://www.mun.ca/university-calendar/school-of-graduate-studies/school-of-graduate-studies/34/>

Courses and Program Requirements (PhD)

<https://www.mun.ca/university-calendar/school-of-graduate-studies/school-of-graduate-studies/44/6/>

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Career opportunities

Upon completion of our BEAS programs, you'll be equipped with a broad set of skills that will prepare you to work in environmental and agricultural industries and related fields such as food industry, forestry, natural resources, science education, and government/NGO agencies.

Contact

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[FOOD IN THE BOREAL](#)