

+ UNB FOREST ENGINEERING PROGRAM – CENTRES AND LABS

Forest Engineering/Geotechnical (Gillan) Lab

Located in the Gillan Wing of UNB's Engineering complex, this lab supports geotechnical testing relevant to unbound roads. The facility features data acquisition systems, a 125 cubic foot lab kiln, various test frames, electronic transducers and more.

Computer Applications Lab

With high quality networked workstations equipped with GPS software and a full complement of ESRI GIS products, this lab supports students in the Computer Applications Minor and others studying applications in GIS, GPS and remote sensing.

Wood Science and Technology Centre

The Wood Science and Technology Centre at UNB is committed to helping wood products manufacturers remain competitive. The research team is comprised of wood technologists, biologists, chemists, timber engineers, and specialists in wood processing and composite panels. WSTC's modern facility includes chemistry and biology laboratories, a composite panel pilot plant, along with small scale and full scale testing facilities.

Integrated Forest Management Lab

The IFM Lab is a modern facility which maintains the character of the 80+ year old F/G building. It is equipped with high end computer workstations, printing and plotting capabilities. Lab members contribute expertise in mensuration, Forest Management, Silviculture, Optimization, Operations Scheduling, and Engineering. [Visit the IFM lab website](#)

Forest Soils and Environmental Quality Lab

This lab provides operational support to centres of planting stock production, seed orchards and Christmas tree growers through its analytical services programs.

Tree Physiology/Biochemistry Laboratories

The Tree Physiology/Biochemistry labs are equipped to provide analytical services in areas of relevance to forest ecology, environmental management, wood science, pulp & paper industries, sugar bush operations and other value-added innovations.

The Environment and Sustainable Development Research Centre

The ESDRC works to enhance understanding and adoption of sustainable development principles through education, outreach, research and community involvement. We work with communities and government agencies to further sustainable development at a variety of scales. [Visit the ESDRC website](#)

Bowater-Nexfor Forest Watershed Research Center

The Forest Watershed Research Center is directly sponsored by Bowater Inc. and Nexfor Inc. The Centre deals specifically with the scientific basis for biophysical issues that arise from considering watershed level ecosystem management and conservation. [Visit the research center's website](#)

New Brunswick Cooperative Fish and Wildlife Research Unit

The NBCFWRU was established in April 1989, as a cooperative effort between the University and the NB Department of Natural Resources and Energy. The Unit has been modeled after the many successful cooperative fish and wildlife research units within the United States, and is the only one of its kind in Canada.

Entomology Lab

In the entomology lab studies insects at the population and individual levels. We investigate the roles of biotic and abiotic factors and individual behaviour on the abundance and distribution of insects in forested and agricultural systems, and subsequent influences on host plants.

Atlantic Co-operative Wildlife Ecology Research Network (ACWERN)

ACWERN's mission is to investigate the effects of environmental change on wildlife populations in Atlantic Canada. To do this we assess what are the likely environmental changes, and design research to explore effects of those changes. Scientific focus is on the relationship between changing ecological patterns and processes, and human activities. [Visit the ACWERN website](#)