



Laurentian Forestry Centre Canadian Forest Service

The Laurentian Forestry Centre (LFC), located in Quebec City near Université Laval, is one of five national research establishments of the Canadian Forest Service, which is part of Natural Resources Canada. More than 200 people work at the Laurentian Forestry Centre. LFC staff carry out a wide range of activities, including field research, laboratory and greenhouse trials, information and data analysis and remote sensing, to help maintain forest health and promote the vitality of the forest sector.



Primary research areas at the Laurentian Forestry Centre

Forest pests: timely action

Many exotic and native pests threaten Canada's forests, including spruce budworm, emerald ash borer, hemlock looper and white pine blister rust. LFC researchers are seeking to learn more about these insect pests and diseases in order to develop suitable detection and control methods.

Do these areas of research appeal to you?

If so, you share a common interest with these research scientists!

Jean BÉRUBÉ	forest pest management
Johanne DELISLE	forest entomology
Pierre DESROCHERS	forest health
Richard HAMELIN	forest pest biotechnology
Gaston LAFLAMME	forest pathology
Robert LAVALLÉE	forest pest management
Véronique MARTEL	parasitoids ecology
Deepa PURESWARAN	forest insect ecology
Jacques RÉGNIÈRE	insect population dynamics
Danny RIOUX	forest pathology, tree defence mechanisms
Kishan SAMBARAJU	modelling-epidemiology
Philippe TANGUAY	molecular forest pathology

Ecosystem dynamics: climate change in focus

How will trees adapt to the changes in their environment? What impacts will climate change have on Canada's forests? How will climate change affect forest fire frequency? What effect will human activities have on the forest carbon balance? These are just some of the questions that LFC scientists are addressing in their research. By increasing knowledge of biodiversity, they are also supporting the development of more sustainable forestry practices.



Come and help our research scientists find answers to these questions!

Louis DE GRANDPRÉ	plant ecology and forest dynamics
Sylvie GAUTHIER	forest succession
Martin GIRARDIN	forest productivity modelling
Christian HÉBERT	forest insect ecology and diversity
Jan KLIMASZEWSKI	insect biodiversity



Ecogenomics: a new perspective

Ecogenomics can be used to increase understanding of the genetic diversity of commercial tree species and then exploit this diversity to enhance the competitiveness of the Canadian forest sector. One challenge relates to the production of trees with desirable wood characteristics. Researchers in the field of ecogenomics also study forest insects and pathogens.

Why not consider an internship with one of these research scientists?

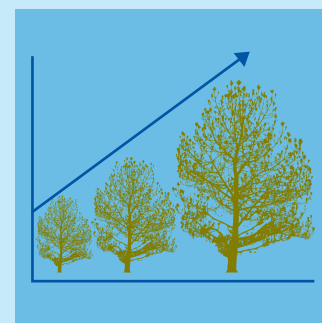
Jean BEAULIEU	forest genomics
Michel CUSSON	insect physiology and biochemistry
Nathalie ISABEL	forest and environmental genomics
Krystyna KLIMASZEWSKA	forest tree biotechnology
Bob RUTLEDGE	forest biotechnology
Armand SÉGUIN	forest genomics

Forest productivity: resource optimization for the future

LFC scientists want to gain a better understanding of forest productivity and dynamics in order to support sustainable forest management. They are also investigating the role that bioenergy can play in the transformation of the forest industry. National forest information and monitoring is also included in the forest productivity area of research.

Come and study with research scientists who have a passionate interest in these topics!

André BEAUDOIN	remote sensing and spatial modelling
Pierre BERNIER	forest productivity
Isabelle DUCHESNE	fiber characterization
Guy LAROCQUE	forest productivity modelling
Jean-Martin LUSSIER	silviculture and forest productivity
David PARÉ	forest soils, biogeochemistry and ecosystem sustainability
Évelyne THIFFAULT	forest biomass
Chhun-Huor UNG	forest growth and productivity



Calling all aspiring researchers!



Research will continue to play a leading role in Canada's important forest sector. By choosing to study in a field related to forestry, you can help to promote the sustainability of our forests.

For more information, visit our Web site: <http://cfs.nrcan.gc.ca/centres/read/lfc>

In 2010-2011, more than 80 undergraduate and graduate students worked at or did an internship at the Laurentian Forestry Centre. Find out about the many opportunities available!

- Federal Student Work Experience Program (FSWEP):
<http://jobs-emplois.gc.ca/fswep-pfete/index-eng.htm>
- Research Affiliate Program (RAP):
<http://jobs-emplois.gc.ca/rap-par/index-eng.htm>
- NSERC – Visiting Fellowships in Canadian Government Laboratories Program:
http://www.nserc-crsng.gc.ca/Students-Etudiants/PD-NP/Laboratories-Laboratoires/index_eng.asp
- Co-operative education program of your educational institution.