



UNIVERSITY OF TORONTO
FACULTY OF FORESTRY

Professor John Caspersen's lab: bioenergy, silviculture, and remote sensing

Contact

Prof. John Caspersen

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416-946-8506

Number of Positions available: 1 PhD

Detailed Description

A fully-funded Ph.D. research assistantship is available in Faculty of Forestry at the University of Toronto. The Ph.D. candidate will assess the potential for using unmerchantable wood as feedstock for the production of bioenergy. In particular, the candidate will: 1) determine how much logging residue can be recovered from partially harvested stands; 2) develop new inventory methods for estimating how much of this unmerchantable wood is available in central Ontario. To achieve both of these objectives, the candidate will use ground-based harvest trials to inform the development of aerial inventory methods, including light detection and ranging (LiDAR). The candidate may also participate in a larger effort to examine how the production of wood, fibre and fuel can be balanced with the continued provision of other ecosystem services, including the maintenance of biodiversity and storage of carbon.

Qualifications: 1) sincere interest in forest ecology, forestry, or remote sensing, 2) strong quantitative skills, 3) remote sensing and GIS skills, or the ability to learn them quickly, and 4) excellent oral and written communication skills in English.

Applicants should send a letter of enquiry and curriculum vitae to John Caspersen (john.caspersen@utoronto.ca). Applications will be reviewed beginning January 15th, but the positions will remain open until a suitable candidate is selected.