Two Postdoctoral Positions in Forest Carbon Cycle Research at the University of Toronto

The university are looking for two postdoctoral fellows to participate in a university-government joint project funded by the NSERC Strategic Grant Program and the Canadian Forest Service to contribute to the development of the Carbon Budget Model of the Canadian Forest Sector (CBM-CFS). The project is funded for three years. The major goal of this project is to add new capabilities to CBM-CFS that enable the estimation of the impacts of climate and atmospheric changes on the forest carbon cycle. This provides exciting career-development opportunities to advance science towards the needs of government climate change policy formulation.

The major tasks of these two individuals are: (1) to develop and validate algorithms for estimating the sensitivities of various forest carbon cycle components to climate and atmospheric factors using tower flux and other data; (2) to develop a module that adds these sensitivities to the current version of CBM-CFS for nation-wide forest carbon cycle estimation; (3) to retrieve forest structural parameters from optical satellite remote sensing data in support of this development; (4) to further develop a process-based Integrated Terrestrial Ecosystem Carbon model (InTEC) that can effectively use forest growth and yield data; and (5) to assess the impacts of climate change on forest species composition and structure using a dynamic vegetation model (Can-IBIS).

Requirements: Ph.D. in a recognized university in areas of micrometeorology, climatology, forest science, ecology, environmental remote sensing, GIS, and related fields. Experience with either eddy covariance flux measurements and modeling or remote sensing of the biosphere would be highly desirable. However, candidates with physics or math or other backgrounds and strong interest in the terrestrial carbon cycle would also be considered. For application, please send to one of the following contacts your cv, brief statement of research interest, and three names who can serve as references.

Salary: $40,000-45,000/y for three years. The positions are available immediately.

Contacts:

1. Dr. Jing M. Chen, Professor, CRC, FRSC
   Department of Geography and Program in Planning
   University of Toronto
   100 St. George St., Room 5047
   Toronto, Ontario, Canada M5S 3G3
   Tel: (416)978-7085
   Fax: (416)946-3886
   Email: chenj@geog.utoronto.ca
   http://www.geog.utoronto.ca/info/facweb/Chen/Chen%27s%20homepage/home.htm
2. Dr. Werner A. Kurz, Senior Research Scientist  
Global Change and Landscape Ecology  
Natural Resources Canada  
Canadian Forest Service  
506 West Burnside Road  
Victoria, BC V8Z 1M5 Canada  
E-mail: wkurz@nrcan.gc.ca  
Tel: 250-363-6031  
http://carbon.cfs.nrcan.gc.ca

3. Dr. David T. Price, Research Scientist  
Integrated Modelling of Climate Change Impacts  
Natural Resources Canada  
Northern Forestry Centre  
5320 - 122 Street,  
Edmonton, Alberta, Canada T6H 3S5  
Tel: (780)435-7249  
FAX: (780) 435-7359  
E-mail: dprice@nrcan.gc.ca