



Lund University

Ecosystem Modelling & Biodiversity Studies Group (EMBERS)
Department of Earth & Ecosystem Sciences

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Two vacancies in Dynamic Ecosystem Modelling

Postdocs or PhD Studentships

Within the Department process-based terrestrial ecosystem modelling is a strong focus involving more than 20 senior staff, postdoctoral researchers and PhD students. The Ecosystem Modelling and Biodiversity group (EMBERS) (www.nateko.lu.se/EMBERS) is mainly concerned with simulating the effects of global change on the structure and functioning of terrestrial ecosystems, as well as feedbacks of ecosystem and land cover changes on the climate system. Vegetation dynamics, species distributions and biodiversity at global, regional and local scales are a particular focus. Our approach is based around further developing and applying the well-known ecosystem modelling framework, LPJ-GUESS, originating in Lund, with input data from climate observations, models, proxy data or scenarios.

We are looking for additional staff to work with the development and application of the model to address a number of global change issues. The successful applicants will contribute to a number of externally funded international projects, including new projects within BiodivERsA and FP7 research programmes: in particular developments and applications including fire modelling in the boreal, Mediterranean zones in Holocene and future perspectives; climate change integrated assessment methodology for cross-sectoral adaptation and vulnerability in Europe.

Postdoc Qualifications: PhD in an environmental science, ecology, geoecology, quaternary ecology, physical geography, physics (or similar). Good programming skills in C++ or similar. Previous experience working with ecosystem process-based models (not GIS modelling) is an advantage and an awareness of global change research issues is important.

A good publications record demonstrating the ability to write research articles independently.
Excellent written and spoken English. **REFERENCE NUMBERS: 1300/1301**

PhD studentship Qualifications: A Masters or equivalent in theoretical ecology, environmental science, physical geography, physics or similar. Interest in and some experience of process-based modelling and programming (e.g. C++) is required. Excellent written and spoken English required. **REFERENCE NUMBER: 260**

Closing date: 16.00 hrs Friday 11th June 2010

Applications including a full cv etc and a covering letter highlighting the applicant's skills and relevance to the advertised positions should be sent to:

The Registrar (email: registrator@lu.se) , Lund University, Box 117, 221 00 Lund, SWEDEN **quoting the relevant reference number**, before the closing date.

Further information web page <http://www.nateko.lu.se/embers/>
Or from **Prof. Martin Sykes** +46 46 2229298 email : Martin.Sykes@nateko.lu.se