Announcement: Two PhD positions in modeling of the arctic carbon cycle at the University of Oslo, Norway and Lund University, Sweden (Deadline: May 15th)

Climate change has an amplified impact on the Arctic, which is warming more than twice as fast as the rest of the world. These fast changes can lead to large climate feedbacks through a change in the land-atmosphere exchange of energy and carbon. Accurate predictions of future arctic climate feedbacks require well-informed land surface models (LSMs) that are able to simulate the complex snow-vegetation-permafrost interactions responsible.

Despite strong advances in recent years, LSMs still lack key processes that affect the arctic carbon cycle, especially in the cold season. Therefore, in the framework of the Norwegian-Swedish research project ‘WINTERPROOF’, we’re seeking prospective PhD students interested in the modelling of snow-permafrost-vegetation interactions in the Arctic and their potential to lead to climate feedbacks. The main tools used in this project will be the land surface models CLM (in Oslo) and LPJ-GUESS (in Lund) and our focus will be from the regional to the pan-Arctic scale.

The project offers two PhD positions, one in Norway and one in Sweden. The Norwegian part of the project is based at the Department of Geosciences of the University of Oslo and the Swedish part is based at the Department of Physical Geography and Ecosystem Science of Lund University. The two PhD students will collaborate closely, and these positions require similar experience and education. Interested candidates, therefore, are permitted to apply to both the position in Lund and the one in Oslo (but please be aware of the differences in the procedure and specific requirements for each position).

We are looking for enthusiastic candidates that fit the following profile:

- The applicant must hold a university degree (MSc. or equivalent) in ecosystem ecology, physical geography, the biogeoosciences or another subject of relevance to the appointment. If a candidate is eligible, and he or she has a university education from outside Norway/Sweden, the education requirements will be evaluated individually.
- Applicants must demonstrate good programming skills, or should be able to provide convincing evidence of aptitude enabling them to acquire such skills promptly upon appointment.
- Advanced knowledge of quantitative or numerical methods in the context of environmental research is highly advantageous.
- Experience with a land surface model and the interpretation of carbon flux measurements is advantageous.
- The applicant must be willing to relocate to Sweden or Norway.
- All PhD candidates must demonstrate high English language skills.
- Candidates for these fellowships are expected to be in the upper segment of their class with respect to academic credentials.

For a full list of the requirements of the PhD position at the University of Oslo, and how to apply, please visit https://www.jobbnorge.no/en/available-jobs/job/150264/phd-research-fellowship-in-biogeoosciences

For a full list of the requirements of the PhD position at Lund University, and how to apply, please visit https://lu.mynetworkglobal.com/en/what:job/jobID:203273/

Contact info:
Dr. Frans-Jan W. Parmentier
www: www.thissideoftheartctic.org
e-mail: frans-jan@thissideoftheartctic.org
Department of Geosciences, University of Oslo, Norway. www.geo.uio.no
Department of Physical Geography and Ecosystem Science, Lund University, Sweden. www.nateko.lu.se