



LUND
UNIVERSITY

VACANCY

2010-02-19

Reference number 2010/627

Faculty of Science
 Department of Physical Geography and Ecosystems
 Analysis
 Susanne Gustafsson, Administrative officer

Lund University announces the following vacancy:

POSTGRADUATE STUDENTSHIP in

Biogeochemistry

with placement at the Department of Earth and Ecosystem Sciences, Faculty of Science

Reference Number: 2010/627

Last application date: 2010-03-12

Starting date: As soon as possible

Information: Torben Christensen **tel:** 046-2223743, **e-mail:**
 torben.christensen@nateko.lu.se

Worker's unions at Lund University: OFR, SACO and SEKO

Project description:

This PhD project will be focusing on improving our understanding of the influence presence and absence of permafrost has on greenhouse gas exchanges (GHG) at high latitudes with particular attention to methane. It will use established measurement sites as well as where necessary establish new sites to study specifically the seasonal dynamics and how they differ in permafrost environments compared to other northern areas. Some emphasis will be on shoulder season and winter processes as our research group recently have discovered some very interesting and poorly understood emission patterns during these seasons in permafrost environments. The project will produce measurement based regional upscale estimates for seasonal dynamics of large scale emissions to be compared with atmospheric observations and modeling. Where appropriate the project will also work on improved process understanding of permafrost dynamics in controlled environment facilities specially designed for such experiments present in the Lund laboratories.

Tasks:

The job will involve substantial amounts of field work during all seasons in cold environments. The work will be focusing on flux measurements of GHGs (primarily CO₂ and CH₄ but possibly also N₂O) using gas chromatographic, IR and laser techniques. Candidates with prior experience with ecosystem atmosphere flux measurements (chamber and/or eddy covariance) under field conditions will therefore be preferred.

Qualifications:

Master of Science or equivalent in relevant subject, Physical Geography, Ecology, Ecosystem Science, Biogeochemistry, Biogeophysics. Experience with field and laboratory experiments and measurements relating to ecosystem-atmosphere interactions in particular greenhouse gas exchanges is preferred. Master of science or equivalent. Not required but experience with work as research assistant is an advantage and a minimum of 4 years of University studies.

Good-excellent is English required, Swedish and advantage.

Additional information

The position is restricted to four years. Formal regulations for postgraduate studies at the Faculty of Science are provided at: <http://www.science.lu.se/o.o.i.s/11729>

PhD studentships can only be offered to applicants who are granted admission to postgraduate studies. In the selection procedure, the ability to complete the education according to the study plan for postgraduate studies is considered.

Apart from postgraduate education, the successful applicant may be assigned other duties within undergraduate teaching, research, and administrative work according to special regulations.

The Faculty of Science considers gender and equity aspects in the recruitment process. Women are particularly encouraged to apply, as the majority of PhD students within the Faculty are men.

Application forms for the announced position are provided at <http://www.science.lu.se/o.o.i.s/2319>

The application must reach the Registrar, Kansli N, Lunds universitet, Box 117, S-221 00 LUND, Sweden, **not later than 2010-03-12** to be considered. All submitted documents must be attested as to their authenticity.

On official business,

On official business,

Susanne Gustafsson