

Susanna Blandman
Personnel administrator

STOCKHOLM UNIVERSITY hereby announces a

PhD POSITION/UTBILDNINGSBIDRAG IN QUATERNARY GEOLOGY

within the topic: **Early Holocene deglaciation and Hypsithermal warming at high latitudes as recorded by multi-proxy evidence (ref.no. 463-03-09)** at the Department of Physical Geography and Quaternary Geology, Stockholm University.

Final date for applications: February 15, 2009

The **Department of Physical Geography and Quaternary Geology** is one of the major departments within the Faculty of Science at Stockholm University. The department has 120 employees and approximately 1500 students. The main research disciplines are Geomorphology, Glaciology, Climatology, Quaternary Geology, Hydrology, Remote Sensing, Geographical Data Processing, Ecological Geography and Tropical Geography. Teaching is oriented towards geography, earth sciences, geosciences and environmental protection.

Project description: We seek to recruit a candidate for a PhD position in Quaternary Geology with emphasis on palaeo-environmental reconstruction. The project aims to reconstruct and compare Holocene changes in vegetation and climate based on pollen and macrofossil analysis and radiometric datings of a long lake core from the Sokli area (northern Finland) and lacustrine sediments to be cored in the Kangerlussuaq region (western Greenland). Geochemical data, mapping and dating of raised beaches and analysis of Digital Elevation Model data will be employed in order to reconstruct ice-marginal lake evolutions. Lake level changes will be further studied by means of diatom analysis by a research assistant to be integrated with the results obtained by the PhD student. The project contributes to the understanding of the deglacial environment and the magnitude of Hypsithermal warming at high latitudes and is expected to provide important data for climate model validation and the interpretation of the Weichselian record at Sokli.

The project involves fieldwork on Greenland (coring of lake sediments from the ice in spring and mapping of landforms in summer), laboratory work (geochemical, pollen and macrofossil analysis), aerial photo-interpretation and analysis of digital elevation data, interpretation and integration of data, and publishing in scientific journals and a thesis.

Terms of employment: The 4-year PhD program includes at least 3 years of research and at most one year of course work. The position may be extended by up to 0.5 year if up to 10% teaching assistance or administration is included in the contract. The position is financed by a

Department of Physical Geography and Quaternary Geology

Stockholms universitet
Institutionen för naturgeografi och
kvartärgeologi
SE 106 91 STOCKHOLM
Sweden

Visiting address:
Svante Arrhenius väg 8C,
Frescati
www.ink.su.se

Phone: +46 8 16 4820
Telefax: +46 8 16 4818

E-mail: susanna.blandman@natgeo.su.se

project with the Swedish Nuclear Fuel and Waste Management Co (SKB) and will provide information for the safety assessment of deep-repositories of nuclear waste in Fennoscandia on glacial-interglacial time-scales. Salary amounts to about 14,900 SEK per month during the first 12 months. Upon satisfactory progress, the PhD-student can apply for a PhD-employment from the second year with a salary of 20,450 SEK per month.

Qualifications: The candidate should have obtained an MSc or equal in Earth Sciences or a related topic by February 15, 2009. Preference will be given to those with a background in Quaternary geology, palaeo-ecology, quantitative palaeo-climatology, and pollen and macrofossil analysis. Experience with aerial photo-interpretation and/or GIS is considered advantageous. Candidates must be self motivated, committed and enthusiastic about conducting fieldwork in remote areas and about working in the laboratory. The PhD dissertation will be written in English.

Envisioned starting date is April 1, 2009 (although this can be negotiated).

Applications labelled “Utbildningsbidrag ref.no. 463-03-09” should be posted to the address below and be post marked no later than February 15, 2009. Applications should include a letter of interest, curriculum vitae, copies of degree certificates and transcripts of academic records (all attested), a list of two persons who may act as references (with phone numbers and email addresses), and one copy of the applicants’ Master Thesis and articles in which she/he is a co-author.

Applications should be sent to:

Stockholms universitet
Institutionen för Naturgeografi och kvartärgeologi
Susanna Blåndman
SE-106 91 Stockholm
Sweden

For further information contact:

Karin Helms (main supervisor) +46 (0) 8 16 4775, karin.helmens@natgeo.su.se
Peter Kuhry (co-supervisor) +46 (0) 8 16 4806, peter.kuhry@natgeo.su.se
Krister Jansson (co-supervisor) +46 (0) 8 674 7158, krister.jansson@natgeo.su.se
Stefan Wastegård (Responsible for the research training programme in Quaternary Geology) +46 (0) 8 16 4982, stefan.wastegard@geo.su.se
Union representatives are Bo Ekengren, SACO, Lisbeth Häggberg, ST, phone: +46 8 162000 and Gunnar Stenberg, SEKO, phone +46 70 3164341

Further information on the web:

Stockholm University: <http://www.su.se/otherlanguages/>
The Department of Physical Geography and Quaternary Geology: <http://www.ink.su.se>
The handbook for postgraduate students: <http://www.doktorandhandboken.nu/english>