

2012-01-16

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Dnr: 463-3-12
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Susanna Blandman
Personnel administrator

STOCKHOLM UNIVERSITY hereby announces a PhD position/utbildningsbidrag in Physical Geography

Within the topic: **Modelling water resources effects of land-water management in Tanzania, Africa (463-3-12) at the Department of Physical Geography and Quaternary Geology, Stockholm University.**

Final date for applications: March 16, 2012

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 approximately 120 employees and educates approximately 1500 students annually. The main research areas are “Climate, environment and landscape”, “Landscape analysis and geomatics”, “Glacier and polar environments” and “Land and water resources”. Education is oriented towards geography, biology-earth sciences, geosciences and environmental protection.

Project description: We seek to recruit a candidate for a PhD position to investigate and model the hydrological impacts of land-water management on water resources in Tanzania, Africa. A starting point will be to characterize the partitioning of seasonally delivered rainwater between groundwater recharge and direct runoff using tracer-based hydrologic analysis and field surveys. These will be used to constrain the hydrological modelling such that it is capable of quantifying impacts of various land-water management strategies under potential climatic changes.

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 1 year if up to 20% teaching assistance or administration is included in the contract. The position is financed by a faculty studentship during the first 12 months, amounting to about 15.500 SEK per month during this period. Upon satisfactory progress, the PhD-student can apply for a PhD-employment from the second year with a salary currently starting at 22.600 SEK per month.

Qualifications: The candidate should (by starting date) either have obtained a MSc, or acquired a total of 240 higher education credits (of which at least 60 at advanced level), or acquired in some alternative fashion the equivalent knowledge in hydrologic modelling and tracer work. Preference will be given to those with a background in hydrology and affiliated disciplines. Experience of hydrological modelling and programming (in R, Matlab, or equivalent), hydrologic tracer analysis and applications, and field work (particularly under rough conditions) are considered advantageous. Further, a successful applicant must be willing and able to travel to central Tanzania to conduct field sampling campaigns. The PhD dissertation will be written in English.

Department of Physical Geography and Quaternary Geology

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Envisioned starting date is June 1, 2012 (although this can be negotiated).

Applications labelled with reference number 463-3-12 should be posted to the address below and be postmarked no later than **March 16, 2012**. Your application 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 your Master Thesis and applicable articles in which you are co-author.

Welcome to send your application, labeled with reference number 463-3-12, no later than **March 16, 2012**, to:

Stockholm University
Department of Physical Geography and Quaternary Geology
Susanna Blåndman
SE-106 91 Stockholm
Sweden

or by e-mail to: susanna.blandman@natgeo.su.se.

Applications sent by e-mail should be in Word or PDF format. Note! Please include the reference number 463-3-12 in the message/subject line of your e-mail.

For further information contact:

Steve Lyon (main supervisor); ph: +46-8-16 4888, steve.lyon@natgeo.su.se

Practical information about the application is available from the personnel administrator, Susanna Blåndman, susanna.blandman@natgeo.su.se

Union representatives are Anqi Lindblom-Ahlm, SACO, Lisbeth Häggberg, Fackförbundet ST, ph: +46-8-16 2000 och Gunnar Stenberg, SEKO, ph: +46-70-3164341

Further information on the web:

Stockholm University: www.su.se/otherlanguages/

The Department of Physical Geography and Quaternary Geology: www.ink.su.se

The handbook for postgraduate students: www.doktorandhandboken.nu/english