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P 2014/625

LUND UNIVERSITY

Faculty of Science

Faculty Office

Personnel Manager Gunilla Thylander

Lund University announces an opening:

Professor in Physical Geography with a specialisation in Ecosystem Exchange Processes

Lund University was founded in 1666 and for a number of years has been ranked among the world's top 100 universities. The University has 47 700 students and 7 500 staff based in Lund, Helsingborg and Malmö. We are united in our efforts to understand, explain and improve our world and the human condition. Find more information on www.lunduniversity.lu.se.

The Department of Physical Geography and Ecosystem Science today employs a staff numbering almost 100 people of whom approximately 40 are doctoral students. Research is organised in research groups and is concerned with the areas of biogeophysics/biogeochemistry, ecosystem science, remote sensing, GIS, geomorphology and climatology. We study landscape- and ecosystem processes using laboratory studies under controlled conditions, field surveys and modelling. In the undergraduate area we offer two Bachelor's degrees, "Physical Geography and Ecosystem Analysis" and "Meteorology and Biogeophysics" as well as five Master's programs – all with an international focus (<http://www.nateko.lu.se>).

Basic information about the position

Reference no: P 2014/625

Closing date for applications: August 31, 2014

Date of appointment: As soon as possible

Placement: Department of Physical Geography and Ecosystem Science

Trades unions at Lund University: OFR, SACO and SEKO

Information about the position: Assoc. Prof Karin Hall, Head of Department, karin.hall@nateko.lu.se, +46 (0)46 222 95 79. Prof. Ben Smith, Subject representative, ben.smith@nateko.lu.se, +46 (0)46 222 43 54.

Information about conditions of employment and the application process: Faculty Personnel Manager Gunilla Thylander, gunilla.thylander@science.lu.se, +46 (0)46 222 40 32.

Description of responsibilities

The Department of Physical Geography and Ecosystem Science (INES) requires a professor whose main tasks are to carry out and lead research, as well as to strengthen, integrate and further develop existing research activities and foci. The successful candidate is also expected to participate in undergraduate and postgraduate education.

The research at INES focuses on climate and environmental changes, their impacts and feedbacks within the coupled Earth system. The research encompasses a range of spatial and temporal scales and geographic contexts, including extensive studies of Arctic and

boreal environments. The research is organised within four related areas or themes: (1) Terrestrial, aquatic and atmospheric processes within the climate system; (2) Ecosystem modelling and climate impact studies; (3) Earth observation and monitoring (remote sensing and field studies); (4) Geographic information science.

INES has a central role within the Integrated Carbon Observation System (ICOS), a European infrastructure, being the host of a central facility for data management, dissemination and outreach, the Carbon Portal. This is expected to influence research activities of the department in a medium to long-term perspective.

In coming years we aim to further strengthen collaboration among the four main research areas of the department, listed above, as well as promoting integration between terrestrial, aquatic, marine and atmospheric research in pursuit of an enhanced understanding of ecosystem-climate interactions within the Earth system.

The successful applicant is expected to take a leading role in promoting, strengthening and further developing established research areas at the department. He/she is expected to actively seek and raise research funding from Swedish and international funding agencies.

The applicant is also expected to develop close collaboration with research teams in adjacent fields at the department, for example ecosystem modelling and remote sensing, and to be active in national and international research collaborations.

The applicant is expected to participate in undergraduate teaching and the development of courses at undergraduate and postgraduate levels, and to supervise postgraduate students.

Necessary qualifications

According to Chapter 4, Section 3 of the Higher Education Ordinance, a person who has demonstrated both research and teaching expertise shall be qualified for employment as a professor except in disciplines in the fine, applied or performing arts. Ordinance (2010:1064).

Candidates must hold a degree of Doctor of Philosophy or equivalent in Physical Geography, Ecosystem Science, or a related discipline of relevance for the position.

The successful candidate will have a strong research track record in empirical and field-based studies of greenhouse gas exchanges between ecosystems and the atmosphere in relation to the biogeophysical, biogeochemical and ecological processes that govern exchanges of mass and energy in the soil-vegetation-atmosphere system. Experience of numerical analysis and modelling in relation to empirical studies is an advantage.

The ranking of candidates' research qualifications will be primarily based on the quality and quantity of their scientific publications.

In addition, qualified candidates should exhibit:

- An ability to collaborate and acquire research funding in international competition;
- Demonstrated leadership of research;
- An internationally-recognised reputation within their research field;

- Experience of supervision of doctoral students to graduation.

In the ranking of candidates, emphasis will also be placed on the potential of candidates, based on an assessment of their track record and expertise, to successfully lead, strengthen and contribute to the development of research at INES.

Documented ability within and experience of the supervision of Masters-level dissertation work as well as the management and development of courses at introductory and senior undergraduate, as well as postgraduate, level is an advantage.

The assessment criteria for appointment as a professor, according to Chapter 4, Section 3 of the Higher Education Ordinance, shall be the degree of the expertise required as a qualification for employment. As much attention shall be given to the assessment of teaching expertise as to the assessment of research or artistic expertise. Each higher education institution determines itself what assessment criteria are otherwise to apply to the appointment of a professor. Ordinance (2010:1064).

When making the appointment, consideration will also be given to the viewpoints expressed in *Lund University Teacher Appointment Regulations*
http://www5.lu.se/upload/PA_Online/Anställningsordning_eng_130531.pdf

The overall assessment will also take into consideration any personal capabilities that are of value to carry out the duties of the position well. Lund University promotes an equal opportunities code. We encourage both men and women to apply for this position.

Required content of the application

The Faculty Board has specified instructions for the application and its accompanying documents. These can be found at the Internet address:

<http://www.science.lu.se/about-faculty/vacant-positions/applying-academic-post>

Information can also be obtained upon request by e-mail or ordinary mail.

By commission

Gunilla Thylander