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Top-level Research Initiative



University of Oslo, Department of Geosciences

1 PhD student position in glacier remote sensing at the University of Oslo, Norway, ref.no. 2012/7158

Position as PhD Research fellow (Stipendiat SKO 1017) is available at [Department of Geosciences](#), University of Oslo, Norway

The candidate will join the Nordic Centre of Excellence SVALI (<http://www.ncoe-svali.org>, supported by the Nordic Top-level Research Initiative, see below).

The fellowship is for a period of 3 years. Starting date: no later than 1st October 2012.

Job description

We are looking for a PhD student to study mass changes and dynamics of Arctic glaciers and ice caps. The candidate will combine state-of-the-art remote sensing methods (ground-based, aerial, spaceborne; optical imagery, radar imagery, radar and lidar altimetry, gravimetry) with glacier physics (glacier mass changes, glacier dynamics, glacier calving) to better understand current and future changes of Arctic glaciers, in particular responses to climatic changes.

The position will be based at the University of Oslo. Collaboration and visits with other SVALI-partners in Norway, Denmark, Iceland and Sweden working on glacier mass changes, glacier dynamics and remote sensing methods are encouraged. The position is announced as a part of the project "Stability and Variations of Arctic Land Ice" (SVALI) under the Top-level Research Initiative (TRI, <http://www.toppforskningsinitiativet.org>) which is a major Nordic collaborative venture for studies of climate, energy and the environment. SVALI is a Nordic Centre of Excellence within the TRI sub-programme "Interaction between Climate Change and the Cryosphere" (ICCC) which aims to improve our understanding of stability, variations and dynamics of the cryosphere.

The University of Oslo, where the position is based, is Norway's largest university with about 5 900 employees and 27 700 students. We offer interesting career opportunities and a good work environment. The university aims to achieve a balanced gender composition in the workforce and to recruit people with ethnic minority backgrounds.

The span of the work at the Department of Geosciences, where the position is based, is well illustrated by the research sections: Meteorology and Oceanography, Environmental Geology, Hydrology and Geohazards, Physical Geography, Petroleum Geology and Geophysics, Tectonics, Petrology and Geochemistry. The faculty consists of 40 professors and lecturers from 5 different sections. In addition, there are Postdoctoral fellows, Ph.D. students, technical staff and administrative personnel.

Qualifications

We are looking for a motivated candidate having a M.Sc degree in geomatics, physics, mathematics, geosciences, engineering or a related field.

The candidate should have a strong background and interest in the following fields:

- Geometric and numeric aspects of remote sensing (photogrammetry, remote sensing, geomatics, gravimetry, computer vision, etc.), and in programming, e.g. using MATLAB, IDL or similar languages.
- Glaciology, in particular glacier mass changes and glacier dynamics, not least in polar environments.

Good oral and written communication skills in English are a prerequisite.

Application deadline: 25th July, 2012

Expected Start Date Starting date: no later than 1st October 2012.

Applications must go to the University of Oslo: <http://uio.easycruit.com/vacancy/781157/64289?iso=no>

The Top-level Research Initiative

The position is part of the project "Stability and Variations of Arctic Land Ice" (SVALI) under the Top-level Research Initiative (<http://www.toppforskingsinitiativet.org>) which is a major Nordic collaborative venture for studies of climate, energy and the environment. SVALI is a Nordic Centre of Excellence within the TRI sub-programme "Interaction between Climate Change and the Cryosphere" (ICCC) which aims to improve our understanding of stability, variations and dynamics of the cryosphere.

The general aims of SVALI are to quantify the current and future melt-rate of land-based ice in the Arctic and North-Atlantic region, to assess the consequences of decreasing land ice volume on sea level and ocean circulation, and to assess the societal consequences of current and future glacier variations. SVALI positions are announced internationally by open calls. An important element of the programme is to enhance mobility of scientists within the Nordic countries and internationally. When candidates are regarded as having similar scientific qualifications, the candidate from another country than the institution making the call will be given priority.

Additional information:

Requirements

The purpose of the fellowship is research training leading to the successful completion of a PhD degree. The fellowship requires admission to the research training programme at the Faculty of Mathematics and Natural Sciences. Firstly, the applicants must have obtained undergraduate (Cand.mag., i.e. B.Sc. level) and postgraduate (Cand.Scient., M.Sc., or Siv.ing., i.e. M.Sc. level) qualifications. This represents approximately five years of full time studies after completion of European Upper Secondary School/International Baccalaureate. Appointment to a research fellowship is conditional upon admission to the Faculty's research training programme. An approved plan for the research training must be submitted no later than two months after taking up the position, and the admission approved within three months.

For more information please see:

<http://www.admin.uio.no/admhb/reglhb/personal/tilsettingvitenskapelig/regulationstermcondition.xml>

Alternatively, for information in Norwegian:

<http://www.lovdatab.no/for/sf/kd/td-20060131-0102-001.html>

A [good command of English is required](#) of all students attending the University of Oslo.

The University of Oslo is an equal opportunity employer and seeks in particular to increase its number of female scientists. Women are therefore particularly encouraged to apply.

Salary

PhD Research fellow (SKO 1017), pay grade: 48 – 56 (NOK 391 100 – 448 100 per year, depending on qualifications/seniority)

The application must include

- Application letter
- Statement of research interest
- CV (summarising education, positions and academic work - scientific publications)
- Copies of educational certificates, transcript of records and letters of recommendation
- List of publications and academic work that the applicant wishes to be considered by the evaluation committee
- Names and contact details of 2-3 referees (name, relation to candidate, e-mail and telephone number)
- Documentation of proficiency in English as required.

Foreign applicants are advised to attach an explanation of their University's grading system. Please observe that all documents should be in English or a Scandinavian language.

In accordance with the University of Oslo's equal opportunities policy, we invite applications from all interested individuals regardless of gender or ethnicity.

UiO has an agreement for all employees, aiming to secure rights to research results a.o.

Region: Oslo **Job type:** Contract **Working hours:** Full-time

Application deadline: 25th July 2012. **Expected Start Date:** late 2012, early 2013

Location: Blindern, Oslo **Reference number:** 2012/7158

Home page: <http://www.geo.uio.no>

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