**Researcher position in landslide mapping**

The Geological Survey of Norway (NGU) is seeking to appoint a highly qualified and motivated geologist in its Landslide Team. The main task is to strengthen the work carried out on rockslide mapping. The candidate should have a good knowledge of GIS and additional remote sensing skills, preferentially with experience with photogrammetry. Work will focus on systematic mapping of unstable rock slopes using remote sensing techniques and intensive field work but also treatment of monitoring data and database work. Additional skills and experience in one or more of the following fields would be beneficial: modelling of run-out behavior, remote sensing using ground-based or satellite-based techniques (e.g. dGNSS, LIDAR, RADAR), Quaternary geology, susceptibility mapping, and modelling of slope stability. The candidate should have a driving license category B by the time of appointment.

Applicants should have a PhD or at least 2-3 years of relevant experience. The applicant should demonstrate the ability to work independently, as well as within a multidisciplinary team. The applicant is expected to exchange ideas and results with colleagues, and to have experience with presentations at international conferences and publication of scientific articles. The landslide team at NGU is a dynamic young team including 13 scientists. The landslide team strongly interacts with other teams within NGU and the Norwegian Water and Energy directorate (NVE). Good communication skills in Norwegian and English will be necessary.

We can offer a favorable, international working environment, unique scientific challenges and good possibilities for participation in international forums and in further education programmes. NGU wishes to have a gender-balanced workforce, and therefore encourages women to apply for the position.

Remuneration of the position will be according to the Government's main agreement on wages, as follows: Scientist with PhD degree (code 1109) on payscale 57-77, corresponding to NOK 482.500 – 710.100 gross per year. Scientist with MSc degree (code 1108) on payscale 47-71, corresponding to NOK 409.400 – 627.900 gross per year.

For further information contact the leader of the Landslide team Reginald Hermanns, reginald.hermanns@ngu.no (+4799091720) or the Division director Øystein Nordgulen, oystein.nordgulen@ngu.no (+47 73904245).

Application with CV, names and addresses of three professionals for reference, and reprints should be submitted to www.ngu.no/vacancies by April 19, 2015.
3-YEARS PhD POSITION - CRYOWALL PROJECT

The Geological Survey of Norway (NGU) is seeking to appoint a highly qualified and motivated geoscientist on a PhD position within the CRYOWALL project with start date in the summer 2015. The candidate has to be enrolled in the PhD program at University of Oslo and will be employed at NGU. The work place will be mainly at the NGU office in Trondheim.

The CRYOWALL project is funded by the Norwegian Research Council to the University of Oslo (UiO) and its national partners the NGU and the Norwegian Public Road Authorities. The project has international partners in Germany and Canada. The candidate is expected to work for at least two several-week-long periods in the laboratories of the Canadian partner in the Dalhousie Geochronology Centre in Halifax, Canada.

CRYOWALL will compile an inventory for steep slopes affected by permafrost for Norway and assess the potential hazard for infrastructure from such features now and in the future. CRYOWALL will evaluate the stability of selected steep frozen slopes, address the spatial distribution of steep permafrost rock walls, investigate the thermal state of steep rock walls in the mainland of Norway by instrumenting selected sites with temperature loggers. The project will also model the thermal regime at different locations, taking account of the environmental and topographic gradients in northern and southern Norway. Finally, CRYOWALL will evaluate the potential risk to infrastructure from permafrost rock walls in Norway, both nation-wide and for selected sites of special interest for road infrastructure, settlements and mountain tourism.

The candidate will among others work within mapping of slope processes on frozen rock slopes and deposits below, as well as dating of rock slope deformation and deposits of rock slope failures by means of cosmogenic nuclide dating with our project partner at the Dalhousie Geochronology Centre. The candidate should therefore have a good knowledge of Quaternary geology, slope processes, and GIS. Additional skills in permafrost processes or in remote sensing, preferentially with experience with photogrammetry, Drone technology or LIDAR, InSAR, and/or modelling of slope stability are beneficial. The candidate should have a driving licence category B by the time of appointment.

Applicants should fulfil the prerequisite to be registered in the PhD program of the faculty of mathematics and natural science of the University of Oslo by the date of
appointment (Master with an average grade of B). The applicant should demonstrate the ability to work independently, as well as within a multidisciplinary team. The applicant is expected to exchange ideas and results with colleagues and is expected to participate at international conferences and publish scientific articles.

The landslide team at NGU is a dynamic young team including 13 scientists. Good communication skills in English will be necessary. Norwegian courses are offered by NGU.

We can offer a favorable, international working environment, unique scientific challenges and good possibilities for participation in international forums and in further education programmes. NGU wishes to have a gender-balanced workforce, and therefore encourages women to apply for the position.

Remuneration of the position will be according to the Government's main agreement on wages, as PhD Candidate (code 1378) on payscale 49-75, corresponding to NOK 422.700 - 675.200 gross per year.

For further information contact the leader of the Landslide team at NGU Reginald Hermanns, reginald.hermanns@ngu.no (+4799091720) or Prof Bernd Etzelmueller at the University of Oslo, bernd.etzelmueller@geo.uio.no (+47 22857229) (project leader).

Application with CV, names and addresses of two professionals for reference, should be submitted to www.ngu.no/vacancies by April 19, 2015.