

### PhD position in “surface runoff – process study and modelling” (3 years)

The open PhD position is part of the *Mobiliar Lab for Climate Impact Research and Natural Hazards*. The goal of the *Mobiliar Lab* is to study and to quantify the spatio-temporal characteristics of climate risks and natural hazards and their impacts upon the Swiss society. The focus is on applied research and practical applications. The *Mobiliar Lab* is part of the *Oeschger Centre for Climate Change Research*, University of Bern  
<http://www.oeschger.unibe.ch/>

We have an opening for a 3-year PhD position starting 1 January 2014 or upon arrangement.

Surface runoff caused by heavy rainfall often results in severe damages. The process chain of the surface runoff generation is complex. This PhD will analyse this process chain with appropriate field methods at selected field sites in order to develop an adequate numerical model. This GIS-based model will identify areas where damage-causing surface runoff could occur. Finally, the PhD thesis will develop recommendations for practice. The PhD thesis is supervised by Prof. Dr. Rolf Weingartner (Institute of Geography, University of Bern) and will enrol in an interdisciplinary research environment

We are looking for a highly motivated candidate with a MSc in hydrology, soil hydrology, soil science, environmental sciences, geosciences or geography, with enthusiasm for research questions in the domain of hydrological processes and modelling, with the willingness to work in the field, with manual skills, with an interest in applied research and with a good knowledge of German and English. The PhD candidate has the opportunity to coach Bachelor- and Master Theses related to the topic of his/her PhD.

The PhD project is part of the *Graduate School of Climate Sciences* at the *Oeschger Centre* of the University <http://www.climatestudies.unibe.ch/>. The graduate school offers a broad range of educational and training opportunities (Summer School, Young Researchers Meetings) and a unique interdisciplinary network in the field of climate sciences at the University of Bern. The close collaboration with the Swiss Mobiliar Insurance company offers the possibility to transfer the research results into practice

The gross salary is fixed according to Swiss National Science Foundation regulations.

For informal inquiries about the PhD position and questions regarding the Mobiliar Lab, the Oeschger Centre and the University of Bern please contact Prof. Dr. Rolf Weingartner ([rolf.weingartner@giub.unibe.ch](mailto:rolf.weingartner@giub.unibe.ch)).

Please send your application documents in **ONE pdf** (MSc certificate, CV, letter of motivation and the names and addresses of two references) to [rolf.weingartner@giub.unibe.ch](mailto:rolf.weingartner@giub.unibe.ch). Review of applications will start on 1 October 2013 and will be continued until the position is filled. Applications from qualified women are warmly encouraged.