



University of Zurich
Department of Geography



Zürich/Freiburg 27 Oct 2009

Vacancies for: 2 PhD students in Hydrology (Uni Zürich, Uni Freiburg i.Br)

Starting date: 1. January 2010 or as soon as possible thereafter

Within the framework of the National Research Programme NRP 61 "Sustainable Water Management", ETH Zürich, University of Zürich, WSL (all Switzerland), and the University of Freiburg i.Br. (Germany) will collaborate on the three-year research project:

Drought-CH: Early recognition of critical drought and low-flow conditions in Switzerland - coping with shortages in soil moisture, groundwater and runoff

The proposed project aims at the characterization and early recognition of critical drought and low-flow conditions in Switzerland, and will provide the scientific basis for the development of an information and early warning platform for drought and low-flow.

The two PhD students in Catchment **Hydrology** will work on the characterization of various aspects of hydrological drought based on the analysis of meteorological and hydrometric data, intensive stable isotope sampling in several test catchments across Switzerland, hydrological modeling and regionalisation of important drought characteristics to larger regions. One PhD is expected to focus research efforts more strongly on the characterization of catchment storage using isotope methods while the other is expected to focus on hydrological modelling aspects. Both will collaborate with the entire project team to integrate all aspects of analysis and modelling towards better low flow prediction. An exchange of the PhD students between Freiburg and Zürich is planned. Applicants should indicate their preference to focus either on isotope hydrology or on hydrological modelling. Applications with either focus can be sent to Jan Seibert at the University of Zürich (jan.seibert@geo.uzh.ch) or to Markus Weiler at the University of Freiburg i.Br. (markus.weiler@hydrology.uni-freiburg.de), depending on the preferred work place.

Applicants should have a Diplom or MSc degree in hydrology, meteorology, or a closely related field. We encourage applications from enthusiastic dedicated individuals with strong quantitative skills as well as good writing skills who enjoy working in a team. We offer an interdisciplinary, international work environment and formal PhD programmes. Salary is according the salary scale of the Swiss National Science Foundation (SNF).

Please send your application including cover letter, CV, an example of your own scientific writing (if available) and the names of at least two potential references in one pdf-file to the respective email addresses. **Application deadline is Nov 20th 2009.**