

Eawag, the Swiss Federal Institute of Aquatic Science and Technology, is a Swiss-based and internationally networked aquatic research institute within the ETH domain (Swiss Federal Institute of Science and Technology). It is committed to the ecologically, economically and socially responsible management of water resources and aquatic ecosystems.

The Department of Surface Waters Research and Management (Surf) has a vacancy for a

## **PhD position: Environmental impact of pumped storage on lakes**

Pumped-storage hydropower plants are considered to be an important stabilizing factor in the future Swiss energy grid following the energy strategy 2050 of the Swiss government, where a large part of the electrical energy is expected to be supplied from intermittent new renewable sources. This PhD project is part of the environmental impact assessment for the extension of an existing pumped-storage power plant in Switzerland. The extension is expected to significantly increase the water exchange between the two connected lakes. The aim of the study is to assess the effects of different pumped-storage scenarios on temperature, stratification, particle dynamics, nutrients, and other relevant processes in the two connected lakes. The study includes field and lab work and numerical modelling. The detailed project plan will be elaborated in collaboration with the owner of the hydropower plant and the cantonal agencies.

The prospective candidate should hold a master degree in environmental engineering or environmental sciences with a strong background in mathematics/physics; a good command of English in speaking and writing is required and knowledge of German is advantageous for the communication with stakeholders.

The start date of this position is negotiable and the duration is limited to a maximum of 4 years. The work place is in Kastanienbaum, Lucerne, Switzerland. For any further information, please contact Dr Martin Schmid; E-mail: [martin.schmid@eawag.ch](mailto:martin.schmid@eawag.ch), Phone: +41 58 765 21 93 (no applications).

All applications arriving before 31 March 2014 will be considered for a first round of interviews. Afterwards, the position will remain open until filled. Applications should include a motivation letter, CV, and the names of at least two referees. We look forward to receive your application through this webpage, any other way of applying will not be considered. Please click on the link below, this will take you directly to the application form.

<http://internet1.refline.ch/673277/0259/++publications++/1/index.html>