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

Between the Swiss Federal Institute of Aquatic Science and Technology, Eawag, Dübendorf/Switzerland, and the Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Schmallenberg/Germany, there is an opening for a

Ph.D. position in Environmental Chemistry and Systems Analysis

The Ph.D. project will be part of a larger project on **„Improved strategies to assess chemical persistence at the water-sediment interface**“, which is funded by the European Chemical Industry council (CEFIC). The goals of the project are (i) to better understand the value and information content of current protocols to investigate persistence of organic contaminants at the water-sediment interface, and (ii) to develop improved test protocols that deliver robust persistence information in a more cost-effective manner.

The envisaged Ph.D. thesis will include both practical laboratory work and extensive data analysis. The laboratory work will include carrying out standard regulatory and modified water-sediment degradation studies as well as sorption studies with various test chemicals and will mainly be carried out at Fraunhofer IME (Schmallenberg). The data analysis part will include the analysis of literature data and own experimental data with kinetic models, using the Bayesian paradigm for parameter estimation and analysis of model identifiability. This work will mainly be carried out at Eawag.

The successful candidate for this position is expected to hold an MSc degree in environmental/analytical chemistry, chemistry, biochemistry or related disciplines with experience in working in a chemical analytical lab. He/she is further expected to have received training in parameter estimation/data analysis methods, to possess good programing skills (preferably in R mathematical language), and to be familiar with the concept of Bayesian data analysis. Since the project will be taking place between Fraunhofer IME and Eawag some flexibility to move between both places is further required. Fluency in English is required.

The duration of the position will be three years. The PhD degree will be awarded by the Swiss Federal Institute of Technology (ETH) Zürich. The PhD student will be supervised by PD Dr. Kathrin Fenner, Dr. Dieter Hennecke, and Prof. Dr. Juliane Hollender.

Preferred start date is as soon as possible, but at the latest July, 1, 2012. Eawag and Fraunhofer IME are both equal opportunity employers. Women are explicitly encouraged to apply to increase their share in science and research.

Applications should include a brief statement describing your motivation to apply, curriculum vitae, copies of your academic qualifications and letters of support with the affiliations of the supporting scientists. The deadline for applications is January 15, 2012, or until the position is filled.

For further information, please consult www.eawag.ch or contact:
PD Dr. Kathrin Fenner, kathrin.fenner@eawag.ch, Phone +41 (0)58 765 5951)

Applications have to be submitted online. The link below will take you directly to the application form. http://internet1.refline.ch/673277/0096/++publications++/1/index.html