

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 Institutes of Science and Technology).

The Department of Engineering (ENG) has a vacancy for a

Post-Doctoral Researcher in bio-process control

The project Model-based Adaptive Control for Nutrient conversion (MAC-Nut) is scheduled to start as soon as possible and is linked to on-going research on nitrogen removal from digester supernatant via the Anammox process and nutrient recovery from urine (VUNA project, <http://www.eawag.ch/vuna>). Your work will be aimed at control of novel nutrient recovery and nutrient removal processes for wastewater treatment based on model-based optimization techniques. Furthermore, new model-based techniques will be developed to control the information-content of data in view of on-line parameter estimation. The work will consist of computer-based simulation experiments as well as real-life experiments with both pilot-scale and full-scale plants which are currently in operation at Eawag.

Applicants for the position will be evaluated regarding the following criteria (in order of importance):

1. Experience in the application of model-based techniques for process monitoring, control and optimization
2. Experience in laboratory, pilot-scale and full-scale experiments
3. Knowledge of environmental engineering, in particular of wastewater treatment systems
4. Experience in scientific communication, including scientific publishing and oral presentations.
5. Experience in process model identification

Good oral and writing skills in English, readiness to work in both simulation and laboratory environments, and willingness to work in an interdisciplinary and international team of environmental scientists and engineers are imperative. Knowledge of the German language is desirable but not required.

For further information, please consult http://www.eawag.ch/index_EN or Dr Kris Villez, Email kris.villez@eawag.ch.

Please submit your application online - with an explanation of your interest to work in the project, a description of your experiences related to the above criteria, personal publications relevant to the project subject, a Curriculum Vitae, copies of diplomas, other relevant certificates and names and contact details of two referees – through this webpage. Any other way of applying will not be considered. The quickest way is to click on the link below. This will take you directly to the application form.

<http://internet1.refline.ch/673277/0185/++publications++/2/index.html>

The review of applications will start on May 1st , 2013 and will continue until the position is filled.

We look forward to receiving your application.