

Eawag, the Swiss Federal Institute of Aquatic Science and Technology, is an internationally networked aquatic research institute within the ETH Domain (Swiss Federal Institutes of Technology). Eawag conducts research, education and expert consulting to achieve the dual goals of meeting direct human needs for water and maintaining the function and integrity of aquatic ecosystems.

The Departments of Aquatic Ecology (Eco) and Environmental Toxicology (Utox) invite applications for a

Postdoctoral fellow to work on the impact of warming and resource limitation on phytoplankton metabolism

A Postdoctoral position is available in the laboratory of Anita Narwani, Ph.D. in the Department of Aquatic Ecology, to lead an Eawag-funded project focused on understanding how temperature and resource limitation affect phytoplankton metabolism, and how these effects scale up to higher-level biological processes. The period of appointment is 2 years, the preferred starting date is May 2020 (negotiable).

The aim of this project is to determine the degree to which the impact of warming on phytoplankton metabolism and growth depends on environmental resource availability. The researcher will determine whether temperature sensitivities of different metabolic processes, and their resource requirements, scale up to affect population-level properties. How does temperature influence different sub-cellular processes? Can we identify general rules about how particular metabolic pathways and their respective resource requirements are sensitive to temperature? Are these sensitivities conserved across the tree of life, or is there variation among clades or genotypes?

The postdoctoral fellow will run highly controlled laboratory experiments with multiple strains and species of phytoplankton, where numerous physiological and metabolomic measurements will be made under gradients of temperature and resource limitation. We provide substantial technical support and expertise for this position in terms of experimental setup, physiological endpoint measurements, mass spectrometry, metabolomics and bioinformatics.

Desired qualifications include:

- a PhD in biology or related field
- a good knowledge of ecology and evolution, with a particular interest in metabolic and/or stoichiometric ecology
- experience running highly controlled and replicated lab experiments with phytoplankton or other microbes
- demonstrated experience performing detail-oriented lab protocols
- enthusiasm for team work
- quantitative data analysis skills, including proficiency in R or similar platforms
- demonstrated ability to communicate science in peer-reviewed publications and conferences. Excellent written and spoken English is required

Eawag offers a unique [research and working environment](#) and is committed to promoting equal opportunities for women and men and to support the compatibility of family and work. Applications from women are especially welcome. For more information about Eawag and our work conditions please consult www.eawag.ch and www.eawag.ch/en/aboutus/working/employment.

Applications must be submitted by 10 March 2020 and should include a motivation letter describing your interests and their relevance to this position, a CV, a list of publications, the names and contact information for three references and copies of academic qualifications.

For further information, please contact [Dr. Anita Narwani](#) or [Dr. Marc Suter](#).

We look forward to receiving your application. Please send it through this webpage, any other way of applying will not be considered. A click on the link below will take you directly to the application form.

<https://apply.refline.ch/673277/0772/pub/1/index.html>