

The Group of Grassland Sciences (Prof. Nina Buchmann) seeks a

Ph.D. student in “Sustainable Food Production Systems”

Responsibilities

Research will be carried out within the SNF funded project "Models4Pastures". The international research consortium of colleagues from New Zealand, UK, France, Italy and Switzerland aims at the fundamental understanding of pastures, as one of many food production systems globally. The PhD project will specifically focus on the net greenhouse gas exchange (N_2O , CO_2 and CH_4) of managed grasslands, the underlying processes and potential GHG mitigation scenarios. Experimental work will be carried out in Switzerland. Tasks include setup and maintenance of an eddy covariance tower in combination with a quantum cascade laser absorption spectrometer for high temporal resolution measurements of N_2O and CH_4 , plant and soil sample preparation, flux and micromet data post-

processing as well as analyses of new and existing flux data. Modelling approaches carried out across the consortium shall be further improved by the newly collected data leading to more reliable model outputs in the future and may involve a stay abroad within one of the project partners.

Requirements

We are looking for a dynamic, reliable and motivated student with M.Sc./Diploma in biogeochemistry, ecophysiology, micrometeorology, ecology, agricultural sciences, biology, environmental sciences or related disciplines. The applicant should have a strong interest in process- and system-oriented research. Experiences and skills in field-work, experimental work as well as interest in working abroad are highly beneficial. Driving license is required. Team-

work within group and with project partners is expected and requires English language skills.

Additional benefits

The research will be carried out within a 3-year project, starting as soon as possible. We offer an interesting position in an international, interdisciplinary research group (www.gl.ethz.ch) in a lively research environment in Zurich as well as international working experiences. Salary and social benefits are provided according to ETH Zurich rules.

Application

Please upload your complete application (CV, transcripts, letter of motivation) on www.pa.ethz.ch. Evaluation procedure will start June 15th. Applications will be reviewed until the position is filled. Further information can be obtained from Dr. L. Merbold (merboldl@ethz.ch).



Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich



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