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## **PhD positions in experimental ice nucleation research and regional atmospheric modelling at ETH Zurich**

The Atmospheric Physics group in the Institute for Atmospheric and Climate Science (IACETH) at ETH Zurich is looking for a 2 PhD positions in the field of aerosol and cloud microphysics research with focus on ice nucleation and mixed-phase clouds in the framework of the Swiss Global Atmospheric Watch program ([www.meteoschweiz.admin.ch/web/en/meteoswiss/international\\_affairs/GAW.html](http://www.meteoschweiz.admin.ch/web/en/meteoswiss/international_affairs/GAW.html)).

One topic is: "Field measurements of aerosols acting as ice nuclei and their influence on mixed-phase clouds". This position deals with conducting field measurements of ice nuclei. Some of the measurements will be taken at the High Altitude Research Station Jungfraujoch (<http://www.ifjungo.ch>) and will be integrated in larger field campaigns, namely the Cloud and Aerosol Characterization Experiments (CLACE; <http://www.psi.ch/lac/clace-gaw-plus>). For this position we are looking for applicants with a strong background in experimental work.

The other topic is: "Regional modelling of aerosol-cloud interaction with focus on mixed-phase clouds". This position will embed and interpret the results obtained during CLACE in a regional atmospheric context and will use these measurements to improve aerosol-cloud interactions and the representation of mixed-phase clouds in the regional aerosol-climate model COSMO-ART-M7. For this position we are looking for applicants with a strong background in numerical modelling.

Both positions require an MSc degree (or equivalent degree) in physics, atmospheric or environmental sciences. In addition some exposure to or knowledge in cloud physics would be beneficial.

Applications and questions related to the position should be sent to Prof. Ulrike Lohmann ([ulrike.lohmann@env.ethz.ch](mailto:ulrike.lohmann@env.ethz.ch)) for the PhD position in regional modeling and to Dr. Zamin Kanji ([zamin.kanji@env.ethz.ch](mailto:zamin.kanji@env.ethz.ch)) for the experimental position. Applications are expected to include a CV (including education, professional experience, and publications) and two names of persons that could be contacted for reference.

Information on our research group can be found at: [www.iac.ethz.ch/groups/lohmann](http://www.iac.ethz.ch/groups/lohmann) and general information about our institute at [www.iac.ethz.ch](http://www.iac.ethz.ch).

Review of applications will start immediately and will continue until the position is filled. Planned starting date is Jan/Feb 2014.

