

The Division of Climate and Environmental Physics, Physics Institute, at the University of Bern in Switzerland, opens a position for a

## **Postdoc in Late Pleistocene Climate Modelling**

Research is carried out in the framework of the groups of Climate and Environmental Physics and the Oeschger Center for Climate Change Research. The postdoc will use the Bern3D model, a climate model of intermediate complexity, that consists of a 3-dimensional ocean, an energy-moisture balance model of the atmosphere, many ocean tracers, and a prognostic land-ocean carbon cycle. The cost-effective model permits large ensembles of simulations extending over many thousands of years. The work will focus on fundamental stability properties of the global ocean circulation and how they are influenced by various mixing schemes in the model. The solution structure of the ocean component is a key property of the coupled climate system. Its characterization is required to understand century-to-millennial variability and abrupt climate change during the past ice ages, as well as the response of the climate to the ongoing perturbation by increased levels of greenhouse gases. In particular, the existence of tipping points will be systematically explored.

We are looking for a highly motivated scientist who strives for original scientific achievements obtained in team work. You have a degree in Physics, Geosciences, Meteorology, Oceanography, or similar, and experience in Pleistocene paleoclimate research. Candidates who have developed or used climate models have an advantage. Expected are advanced operating and programming skills in one of the following: Unix, Fortran, C++, Python, R. Demonstrated leadership in writing (peer-reviewed scientific publications) and excellent communication skills in English, as well as the commitment to collaborate within an interdisciplinary framework are essential, in particular with fellow scientists at Climate and Environmental Physics who use the Bern3D coupled climate model.

The employment is for 1.5 years with a possible extension. The salary is according to the postdoctoral scale of the University of Bern and depends on experience. A small contribution to teaching in the Physics curriculum is expected.

### **Application:**

Your application is **in one pdf-file** and consists of a motivation letter, CV, a link to a PDF file of your PhD thesis, MSc and PhD certificates **including evaluations**, and the contact details of three referees. The position is open now until a suitable candidate is found. Please upload your application at

**[https://fileserv.climate.unibe.ch/upload\\_apps.php?jobid=bern3d\\_2022](https://fileserv.climate.unibe.ch/upload_apps.php?jobid=bern3d_2022)**

University of Bern  
Physics Institute  
Climate and Environmental Physics,  
Prof. Dr. Thomas Stocker  
Sidlerstrasse 5  
3012 Bern  
phone: +41 31 684 44 62  
[stocker@climate.unibe.ch](mailto:stocker@climate.unibe.ch), <http://www.climate.unibe.ch/stocker>