



EBERHARD KARLS

UNIVERSITÄT  
TÜBINGEN



## Postdoctoral research fellowship position at Tübingen University

A full-time postdoctoral research fellow position is available at the Section Mineralogy and Geodynamics, Department of Earth Sciences, Tübingen University.

Salary scale: German Federal Tariff BAT-II  
Duration: 3 years, 3<sup>rd</sup> year conditional on progress in first 2 years  
Start of project: Preferably about June 2006

The project is part of the Eurocores-EuroMinSci-funded Network "Mineral Substructure Dynamics" that focuses on the evolution of microstructure on the subgrain- and grain-scale in deforming minerals and metals. The project in Tübingen will mostly involve numerical modelling with the software "Elle" (FEM, FD, front-tracking) of dynamic recrystallisation in ice and halite. One aim of the project is to expand Elle to enable 3D-modelling.

Main task for the research fellow will be the development of software to simulate dynamic recrystallisation in minerals and metals, in particular ice and halite, and expanding the Elle-software to enable 3D-simulations. The research fellow will collaborate with other groups within the network, and is expected to spend 2-3 months a year at these other groups, especially those of Jessell (Toulouse), Urai (Aachen) and Piazzolo (Stockholm), to jointly develop software and compare numerical simulations with laboratory experiments. The research fellow is expected to participate and assist in activities of the network (website, short courses, etc.).

Candidates are sought who have a solid background in numerical modelling and materials science and rheology (ice, minerals, metals, and/or ceramics). The candidate will be acquainted with the main numerical methods, such as FEM, FD, front-tracking, and be able to develop software written in C and C++. Experience with Elle is an advantage. The candidate must have a PhD in Earth Sciences, Engineering, Physics or other relevant science. The candidate must be able to communicate and write scientific publications in English. Knowledge of German is of practical advantage, but not a requirement.

Send your application **before March 31, 2006**, to Prof. Paul Bons, Institut für Geowissenschaften, Universität Tübingen, Sigwarstr 10, 72076 Tübingen, Germany, or as PDF-attachement to [paul.bons@uni-tuebingen.de](mailto:paul.bons@uni-tuebingen.de). Please include in your application:

- CV and scientific track record
- List of publications (send relevant publications along with your application (as PDF))
- Statement on your suitability for the project (modelling experience, etc.)
- One letter of reference from a current/former supervisor and email addresses of at least two more references
- Email and telephone number where you can be contacted in April, 2006.

Tübingen University seeks to increase the number of women in its workforce. Women are therefore strongly encouraged to apply.

Find more information at: [www.structural-geology.info](http://www.structural-geology.info)