



Leibniz
Universität
Hannover

The Institute of Geology invites applications for

2 PhD positions in tectonics and numerical modelling (EntgGr. (Salary Group) 13 TV-L / 50%)

Description of projects

One PhD project (two years with an option for extension for one year) is dedicated to the question how the seismogenic plate interface at subduction zones responds to surface processes (erosion/sedimentation, deglaciation, sea-level changes). During the project, the successful candidate will learn state-of-the-art numerical modelling techniques to evaluate the influence of surface processes on the plate interface in terms of slip patterns and earthquake frequency. She/He will apply the model results to selected natural case studies worldwide (e.g. Andes, Alaska).

The other PhD project (three years) aims to investigate the impact of mass redistribution due to erosion and sedimentation on the slip evolution of individual faults. The successful candidate will learn to use an innovative numerical model that couples an advanced tectonic model including faults with a well established landscape evolution model to evaluate the potential of surface processes to influence fault behavior in different tectonic settings. The developed models will be applied to selected natural case studies worldwide (Basin-and-Range Province, Himalaya, Greece).

Employment conditions

Applicants must hold a diploma/MSc in geosciences and should have a strong interest in tectonics and geodynamics. Knowledge of tectonic geomorphology, numerical modelling and UNIX/Linux is beneficial but not mandatory.

As an equal opportunity employer, the Leibniz Universität Hannover wishes to support women. For this reason suitably qualified women are specifically invited to apply. Equally qualified applicants with disabilities will be given preferential treatment.

For further information, please contact Prof. Dr. A. Hampel (phone: 0511 / 762 2173; email: hampel@geowi.uni-hannover.de) or Dr. Georgios Maniatis (phone: 0511 / 762 17411; email: maniatis@geowi.uni-hannover.de), who will be pleased to assist. Applications will be evaluated continuously until the position is filled.

Please send your application (as paper copy per mail or single PDF-file by email) including a motivation letter, CV, a statement of your research interests, copies of certificates and addresses of 2 potential referees to

Gottfried Wilhelm Leibniz Universität Hannover
Prof. Dr. Andrea Hampel

Institut für Geologie
Callinstraße 30
30167 Hannover
hampel@geowi.uni-hannover.de