EBERHARD KARLS
UNIVERSITÄT
TÜBINGEN

European Research Council
Established by the European Commission

Postdoc and PhD Positions in Integrated Climate, Tectonics, and Surface Processes Research

The Earth System Dynamics research group at the University of Tübingen, Germany, announces **4 PhD and 2 Postdoctoral positions** associated with a new European Research Council (ERC) Consolidator project. The project is titled "EXTREME: EXtreme Tectonics and Rapid Erosion in Mountain Environments" and investigates the interactions between paleoclimate, surface processes, and 3D subduction geometry at orogen syntaxes in the Himalaya, St. Elias Range (Alaska), Cascadia (Washington State), and Andes (Chile, Peru). Candidates with interests in one or more of the following 6 positions should apply:

1. **Atmospheric general circulation modeling** of paleoclimate during mountain topographic evolution.
2. **3D thermomechanical and surface process modeling** of lithospheric deformation and erosion.

3-4. **Cosmogenic nuclide determination of catchment erosion** rates in the Cascadia and South American margins.

5-6. **Fission track and (U-Th)/He thermochronometer determination of exhumation** in the Cascadia and South American margins.

The research team will work together to quantify the deformation and erosion history of the study areas and the atmospheric, erosional, and geodynamic controls on their evolution. State of the art facilities for thermochronology, cosmogenic isotopes, and high performance cluster computing are available for the project.

Requirements for applicants are written and spoken fluency in English and completion of an MSc degree (for PhD applicants) or Doctorate/PhD (for Postdoc applicants) prior to appointment. The start date for all positions is between April 1 and Oct. 1, 2014. Proficiency in Spanish or German is beneficial, but not required. Good physical condition and field experience are recommended for persons interested in thermochronology and cosmogenic isotope positions. Appointments are for 1 year and renewable for up to 4 years. Salaries are competitive and at the German TV-E13 level (50% or higher for PhD students, ~100% for Postdocs).

Application materials should include: a CV and list of prior publications (if any), a 1-2 page cover letter with a statement of research interests, and contact information for three referees familiar with the candidate's research. Application materials should be sent as a single PDF file and in English. Questions concerning this position should be directed to Prof. Todd Ehlers at todd.ehlers@uni-tuebingen.de. Additional information about the Earth System Dynamics research group is available at: www.geo.uni-tuebingen.de/esdynamics. ***Applications should be submitted by February 6, 2014.*** Tübingen is a university town and offers a high quality of living and numerous recreational opportunities within southern Germany and neighboring countries.

The University of Tübingen is committed to increasing the proportion of women in research and teaching positions and therefore encourages qualified candidates to apply. Disabled persons will be given preference if equally qualified. Employment takes place via the Central Administration of the University.