UNIVERSITY OF CAMBRIDGE
DEPARTMENT OF EARTH SCIENCES

Post-doctoral positions in active tectonics

Post-doctoral position in mountain range deformation and dynamics

The work will focus on the deformation and dynamics of mountain ranges, with particular reference to the Himalaya and the Tibetan Plateau. The position is funded by the "iTECC" Marie Curie Initial Training Network (which focusses the interaction between climatic forces and topographic evolution in active mountain belts; http://www.falw.vu/~itecc/iTECC/Welcome.html). The post holder will work with Alex Copley, Mike Bickle, and James Jackson in Cambridge, and have interactions with the international iTECC network of researchers. The research will focus on using a variety of seismological, geodetic, and numerical modelling techniques to provide insights into the kinematics of large mountain ranges, and the controls on their evolution and dynamics. The post holder will aim to improve our knowledge of the present-day behaviour of large mountain ranges (including the Himalaya and Tibet), and develop models to understand the interplay between driving forces and lithosphere properties that leads to the observed deformation. A further component of the work will be to use insights into the present-day tectonics to explore the evolution through time of mountain belts when subject to a variety of tectonic and climatic forcings.
Further information and application details: http://www.jobs.cam.ac.uk/job/2330/

Research Associate in field-based active continental tectonics

The project involves identification and characterization of active faults in central Asia and the Alpine-Himalayan region, particularly in Kazakhstan and neighbouring countries, and also in NE China. The successful candidate will work closely with Prof. Jackson and Dr. Richard Walker of Oxford University as part of a broader consortium in the NERC-funded Earthquakes Without Frontiers project (http://planetearth.nerc.ac.uk/blogs/post.aspx?id=1037&pid=329), whose principal aim is to work towards increasing resilience to earthquakes in those countries. The research will involve analysis of fault-based geomorphology using space-based remote sensing and field studies, within the context of the regional active tectonics revealed by seismological and geodetic data.
Further information and application details: http://www.jobs.cam.ac.uk/job/2291/

The successful applicants will join a vibrant and world-leading Earth Sciences department and will interact with scientists with a wide range of relevant interests and strong interdisciplinary links.

Closing date for both positions: 30 December 2013.