



**UNIVERSITY OF OXFORD  
DEPARTMENT OF EARTH SCIENCES**

**NATIONAL CENTRE FOR EARTH OBSERVATION**

**CENTRE FOR THE OBSERVATION AND MODELLING OF EARTHQUAKES, VOLCANOES  
AND TECTONICS**

**POSTDOCTORAL RESEARCH ASSOCIATE IN SPACE GEODESY & SEISMOLOGY**

Applications are invited for a postdoctoral researcher to work on the integration of geodetic and seismological observations to determine earthquake rupture mechanisms.

The research will be carried out under the direction of Professor Barry Parsons in collaboration with Dr David Robinson in the Department of Earth Sciences, Oxford University. The objectives are to combine all available geodetic measurements (InSAR, GPS and satellite photogrammetry) of earthquake deformation with seismological recordings of the earthquake to increase the spatial and temporal resolution of earthquake rupture histories.

COMET+ is a consortium of scientists in the Universities of Oxford, Cambridge, Leeds, Reading and University College, London that forms the Dynamic Earth and Geohazards research group of the National Centre for Earth Observation funded by the Natural Environment Research Council. The group's aim is to bring the full suite of satellite observations, together with theoretical analysis, to bear on scientific questions about the earthquake cycle, volcanic processes, and continental deformation, and to provide new constraints for seismic and volcanic hazard assessment. The group collaborates in its research with scientists in many parts of the world, including China, Ethiopia, Greece, Iran, Japan, New Zealand, Turkey and the USA.

The post holder will be responsible for integrating the inversion of geodetic and seismological observations currently used to determine earthquake rupture mechanisms. He/she will coordinate the use of InSAR by the group to investigate earthquake mechanisms and will contribute to multidisciplinary forensic investigations of significant events. The project also involves collaboration with scientists at the Universities of Kyoto and Tsukuba, and there will be the opportunity to visit Japan to further the research.

Candidates should have a background in seismology, geodesy or related fields of geophysics, and experience with the application of geophysical inverse theory. The post holder will be encouraged to develop their own research interests.

The starting salary for the post will be on the University Scale 7, £28,839 to £35,469 per annum. The appointment will start as soon as possible, and will be for 2 years in the first instance.

Applications, with three copies of a full curriculum vitae and the names and addresses of three referees, should reach Miss Kyra Smith, Department of Earth Sciences, Parks Road, Oxford, OX1 3PR, [kyra.smith@earth.ox.ac.uk](mailto:kyra.smith@earth.ox.ac.uk) no later than Friday 22nd May. Further particulars are available on request. Please quote reference DG/09/01. Informal enquiries about scientific aspects of the post may be addressed to Prof. Barry Parsons ([barry.parsons@earth.ox.ac.uk](mailto:barry.parsons@earth.ox.ac.uk)).

**The University operates an equal opportunities policy**