



ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE

RESEARCH TRAINING NETWORK
'MOUNTAIN RISKS'



UNIVERSITAT POLITÈCNICA
DE CATALUNYA

Post-doc Research Fellowship in geotechnical engineering

Title: Hydromechanical modelling for large landslides during crises.

A Post-doc fellowship is available financed by the European Community within the Marie Curie Research and Training Network 'Mountain Risks: from prediction to management and governance' to carry out research with the objective of development of alert thresholds. The post-doc project will contribute, using hydro-mechanical finite element approach, to:

- the identification of critical factors involved in the behaviour of the large landslides processes
- the quantification and mapping of the hazard
- the definition of criteria for establishing monitoring networks for early warning.

Location: The work will be carried out in the Swiss Federal Institute of Technology in Lausanne (EPFL, Switzerland) during the 1st year, and in the Technical University of Catalonia (UPC, Spain) during the 2nd year.

Supervision: The Post-doc will be formally supervised by scientists at both institutes (L. Laloui, EPFL; J. Corominas and A. Ledesma, UPC).

Requirements: Recently obtained Ph.D in soil mechanics. Experience in and aptitude for multi-phase numerical modelling and landslides processes.

Eligibility: As requested by the EC, applicants can not seek the position in his/her country of origin or residence, or in the country where the applicant holds her/his Ph.D.

Starting date: February 1st, 2007 (some flexibility is possible).

Conditions of employment: The appointment will be given in reference to the rule of each of the two universities. The fellowship duration is 12 months at the EPFL-Lausanne a rate around 3600.- € gross per month + 12 months at the UPC-Barcelona a rate of 3133,12 € gross per month. The applicant will benefit from supplementary allowances that will enable him/her to spend a substantial amount of her/his time at secondment institutions of the network. At the UPC-Barcelona, a mobility allowance of 468,50 €/month or 749,60 €/month will be allocated for applicants without or with family charges, respectively. Additional allowances are supporting career development plans and one visit per year to the home countries.

Contact persons: Interested persons should contact and send their information (CV, statement of interest, names of three references) to Dr. L. Laloui (lyesse.laloui@epfl.ch) and to Dr. J. Corominas (jordi.corominas@upc.edu). Selection of the applicant will be performed by the Steering Committee of the Mountain Risks Project, on a competitive basis.

Please note that the official **application deadline is 2006, December 15**, so interested applicants should establish contact as soon as possible.