



## **World Agency of Planetary Monitoring & Earthquake Risk Reduction**

### **Job Description for an Earthquake Engineer at WAPMERR**

(World Agency for Planetary Monitoring and Earthquake Risk Reduction)

2 rue de Jargonnant, Geneve, CH-1207

WAPMERR ([www.wapmerr.org](http://www.wapmerr.org)) is looking for a junior earthquake engineer to revise its databank on fragility curves and on properties of building stock worldwide. The position may be filled either part-time or full-time. The place of work is Geneva, Switzerland.

WAPMERR is upgrading the method and database, with which it has estimated losses due to earthquakes in real-time as well as scenario mode for the last four years. The aim is an open source, shake-map-compatible loss estimating tool for application in developing countries. This effort is conducted jointly with the Swiss Seismological Service of the Federal Institute of Technology in Zuerich, Switzerland and the Georgian Seismological Monitoring Center, Tbilisi, Georgia.

In parallel efforts, improvements of the method and database include soil amplification factors, population numbers, attenuation functions, extended earthquake sources, probable depth of hypocenters, error estimates and display methods.

The earthquake engineer we seek is expected to execute the following tasks. (1) Extract from the literature and the internet the most up-to-date information on building properties, focusing on developing countries. (2) Place this information into a GIS layer that will be used for loss estimates in cases of earthquakes. (3) Participate in constructing models of building properties for important cities worldwide, using as input in part 3D models of these cities, based on satellite images. (4) Participate in implementing information on soil properties into models of cities in their response to strong ground motion due to earthquakes. (5) Participate in estimating losses due to earthquakes in scenario and real-time mode.

Applicants are requested to send their vitae and a brief outline on how they view their role in the team that is revising and upgrading WAPMERR's loss estimating computer tool and data set to Max Wyss at [wapmerr@maxwyss.com](mailto:wapmerr@maxwyss.com), or [max\\_wyss@wapmerr.org](mailto:max_wyss@wapmerr.org).

15 March 2007  
Max Wyss  
Director  
WAPMERR

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