PhD positions in Seismology and Applied Geophysics

Recently, ETH Zurich has established the Bedretto Underground Laboratory for Geoenergies (http://www.bedrettolab.ethz.ch/). It offers truly exciting and unique opportunities related to geothermal research and for studying fundamental seismological processes. We are currently running two large-scale projects. The Bedretto Reservoir Project is devoted to in-situ studies of the creation and operation of deep geothermal reservoirs, and with the Bedretto Earthquake Project, we will perform fundamental research related with the nucleation of earthquakes. In the framework of these projects, we have currently several openings for PhD positions (see http://www.bedrettolab.ethz.ch/activities/open-positions/ for more information).

PhD Project 1:  Seismic velocity changes as indicators of stress changes
PhD Project 2:  Variability of petrophysical properties during reservoir stimulation and their effect on elastic wave propagation - from laboratory to field scale
PhD Project 3:  Fracture characterization using borehole radar and seismic data
PhD Project 4:  Source characterization of induced seismicity by joint inversion of seismic data and strain observations gained from fibre optic measurements
PhD Project 5:  Modeling of induced seismicity

The successful candidates should hold a Master’s degree in geophysics, physics, geology or civil engineering, and should have a keen interest and preferably some experience in field work and numerical modeling. It is possible to apply for multiple projects. Please indicate your preferences in your application. We explicitly encourage female candidates to apply.

ETH Zurich is one of the world’s leading universities specializing in science and technology. We are renowned for our excellent education, cutting-edge fundamental research and direct transfer of new knowledge into society. The Bedretto Lab Team is embedded in the Earth Science Department of ETH Zurich. Since several years, this is the top-ranked department by disciplines. Our research is highly interdisciplinary, and teamwork is key for the success of our research.

We are looking forward receiving your application until October 15, 2020. Please contact Prof. Dr. Hansruedi Maurer (hansruedi.maurer@erdw.ethz.ch) for general questions, or the contact persons, indicated in the project descriptions, for more detailed questions concerning the individual projects.

Only online applications using https://www.jobs.ethz.ch/job/view/JOPG_ethz_JpMQPJAKu6mX1ktMG6 will be considered.