



Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

Institute for Mineralogy and Petrology

The Institute for Mineralogy and Petrology (IMP) at ETH Zurich invites applications for 1 Post-doctoral scientist and 1 PhD studentship in the areas of Experimental Geochemistry and Mineralogy.

1 Post-doctoral scientist (2 years) in Experimental Geochemistry

The post-doctoral project aims to characterize *in situ* the physico-chemical properties of fluids under high pressures and temperatures using externally heated diamond anvil cells combined with Synchrotron X-ray (XAFS, SXRF) and vibrational spectroscopies. The program is funded by the Swiss National Sciences Foundation (SNSF). A PhD degree in geosciences, chemistry, physics or a related field is required at the time of the appointment. Strong knowledge and experience with diamond anvil cell techniques and/or spectroscopy using synchrotron and/or laboratory sources is required.

The position is a 1 year appointment with opportunity to renew for an additional year and it is to be filled as soon as possible. Review of the applications will start immediately and continue until the position is filled. Starting salaries are 78kCHF/year. For further information, please contact Carmen Sanchez-Valle.

Applicants should send a CV including publication list, a statement of current and proposed research and the names and addresses of 3 references to Carmen Sanchez-Valle (carmen.sanchez@erdw.ethz.ch).

1 PhD studentship (3 years) in Mineral Physics (starting Summer/Fall 2008)

The PhD project focuses on the investigation of the elastic properties of selected mantle mineral phases at relevant pressure and temperature conditions by Brillouin spectroscopy. The project involves 1) synthesis of samples in multi-anvil apparatus, 2) elasticity measurements at simultaneous high P-T conditions in diamond-anvil cells, and 3) modeling of laboratory and seismic data to provide constraints on chemical, mineralogical, thermal, and geodynamic models of the Earth's interior.

The successful candidate should have a strong background on mineralogy and physics and experience with performing experiments. Expertise in the use or setup of high-pressure instruments is welcome but not prerequisite. Applicants should hold a Master's or an equivalent degree in the areas of Earth sciences, physics or chemistry at the time of appointment.

Candidates should send, in a single pdf file, a copy of your CV, a motivation letter and the names and contact details, including e-mail address, of two potential referees to Carmen Sanchez-Valle (carmen.sanchez@erdw.ethz.ch).

Please contact Carmen Sanchez-Valle for additional information concerning the projects.
Information about the Institute for Mineralogy and Petrology of ETH is available at: <http://www.imp.ethz.ch>

Deadline: Review of applications will start immediately and will continue until the positions are filled.