



UPPSALA
UNIVERSITET

Uppsala University hereby declares the following position to be open for application

PhD position in Geochemistry and Petrology of Silicate Glasses and Melts

at the Department of Earth Sciences.

Starting date: November 2010 or as agreed upon.

The chemistry and physical state of glassy volcanic phases hold important clues about e.g. distinct phases and styles of magmatic activity, chemical partitioning, magma source conditions and the thermal history of a rock. This project will utilize a multidisciplinary approach in studying volcanic and experimental glasses, to unravel magma genesis and evolution in respect to underlying geological and tectonic processes. The project will rely on a detailed characterization of glasses at a microscopic level using modern analytical methods, such as Raman spectroscopy, ion- and microprobe chemical analysis, FTIR, optical- and scanning electron microscopy, as well as synchrotron radiation based techniques. The acquired knowledge on physical and chemical properties will be translated into the description of generic magmatic processes, as well as their causes and dynamics, by employing quantitative geochemical and petrological modelling tools.

Research directions within the program include traditional and experimental petrology, high-temperature geochemistry, mineralogy, diagenetic processes, tectonic modelling and structural geology. Apart from standard equipment, an electron microprobe, as well as hydrothermal and high-pressure experimental laboratories (autoclave and diamond anvil cell), a tectonic analogue laboratory and an SEM exist amongst the facilities (see <http://www.geo.uu.se/mpt>).

The candidate should have a background in geosciences or natural sciences. Special attention will be given to candidates with experience in geochemistry, igneous petrology and in-situ mineral analysis using micro-analytical techniques.

Proficiency in oral and written English is necessary. The PhD position is for a maximum of four years and may include departmental duties up to about 20% (typically teaching). In order to be eligible for this position, the candidate has to be admitted, or be in the process of being admitted, as a PhD student at Uppsala University and therefore is required to have a Masters of Science or equivalent qualification. Uppsala University is an equal opportunity employer and encourages female candidates to apply.

For more information, please contact:

Prof. Peter Lazor, tel +46-18-471 2556, e-mail: peter.lazor@geo.uu.se or Prof. Valentin Troll, tel +46-18-471 2570, e-mail: valentin.troll@geo.uu.se. Union representatives are Anders Grundström, SACO, phone. +46-18-471 5380, Carin Söderhäll, TCO/ST, phone. +46-18-471 1996, Stefan Djurström, SEKO, phone. +46-18-471 3315.

Application must be written in English and should include a brief description of research interests and experience, CV, university transcripts that include a list of courses taken and grades achieved, a copy of the Master thesis and any other relevant documents. The candidates are encouraged to provide 2 letters of recommendation within their application package.

Applications should be sent, preferably by e-mail to: registrator@uu.se, or by fax + 46 18 471 2000, or by mail to: Registrar's Office, Uppsala University, Box 256, SE-751 05 UPPSALA, Sweden. In any correspondence, please use the reference number **UFV-PA 2010/2444**.

Application deadline is on October 25th, 2010.