



The University of Vienna hosts 20 faculties and centres, 178 fields of study, approximately 9.800 members of staff and about 90.000 students. We invite applications for a

Pre-doctoral Researcher position in Mineralogy / Petrology

The position is part of the three-years International Project “Mineral Inclusions in Garnet: nanostructure – texture – genesis” funded by the Austrian Science Fund (FWF) and the Slovenian Research Agency (ARRS). The research project aims to identify the microstructural, crystallographic and compositional footprints of specific mechanisms and conditions of mineral inclusion – garnet host system formation using a wide range of state-of-the-art analytical methods.

Job description:

As part of an international team of highly experienced researchers the doctoral candidate will perform the microstructural and compositional characterization of selected rock samples by applying various analytical methods including optical light and scanning electron microscopy as well as electron probe microanalysis. Investigations will focus on the distribution, geometry, shape preferred orientation and composition of mineral inclusions in garnet, and the microstructural and compositional zoning record of host crystals and the host rock. The pre-doctoral researcher will collect, process and evaluate analytical data and compare compositional data with results from theoretical calculations based on thermodynamic models. The investigations will found the basis for domain selection and sample preparation for further analyses at nanometer to atomic scale. We expect the doctoral candidate to complete a doctoral thesis during project runtime.

Profile:

- Master (or equivalent) degree in Mineralogy, Petrology, Geology or Material Science
- Experience in optical light microscopy and scanning electron microscopy
- Diligent, reliable and autonomous approach to work
- Intrinsic motivation to solve challenging research questions
- Fluent in spoken and written English
- Excellent communication skills and ability to work in an international team

Employment:

- Position location: Department of Lithospheric Research, University of Vienna, Vienna, Austria
- Date of project start: 1. October 2019
- Duration / extent of employment: 3 years / 30 hours per week
- Salary: 2162.40 Euro gross salary per month

Applications comprising a letter of intent, CV, education certificates, 2 references or commendatory letters and - if applicable- a publication list should be submitted preferably until **11. August 2019** via email to: gerlinde.habler@univie.ac.at

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