

PhD Position

Within the framework of the DFG-funded Research Unit FOR 2125 "Structures, properties and reactions of carbonates at high temperatures and pressures" the AG Winkler of the Goethe University invites applications for a

PhD Position/Research position (m/f)

The research unit FOR 2125 is a collaboration of scientists from the Universities of Frankfurt am Main, Potsdam, Dortmund, Bayreuth, Cologne and Freiberg, the GeoForschungsZentrum (GFZ) in Potsdam as well as the large scale facility European X-ray Free Electron Laser (XFEL) in Schenefeld. We investigate carbonates at high pressures and temperatures (<http://www.for2125.de>).

We are looking for a highly motivated candidate for the project "Phase stabilities of carbonates and reaction between carbonates and mantle minerals at high pressures and temperatures studied in the LH-DAC by Raman and time-resolved laser fluorescence spectroscopy".

Your tasks:

- participate in a DFG collaborative project investigating structure-properties relations at mantle conditions
- experiments in the laser heated diamond anvil cells
- study the effects of pressure and temperature on phase stabilities of carbonates at mantle conditions and reaction between carbonates and silicates by Raman spectroscopy, time-resolved laser fluorescence spectroscopy and x-ray diffraction

Your qualifications:

- master degree (or equivalent) with focus in mineralogy/crystallography or related disciplines
- good knowledge of vibrational spectroscopic methods and x-ray diffraction, experimental skills

The Goethe University is an equal opportunity employer and supports gender equality.

Starting date:	June 1 st 2018
Fixed term:	3 years
Working hours:	part-time (67 %)
Salary:	E 13 TV-GU
Location:	Frankfurt a. M.

Please submit your application by **15th April 2018** via email to bajariargal@kristall.uni-frankfurt.de, with a copy to b.winkler@kristall.uni-frankfurt.de. Please combine your application documents (letter of motivation, CV and certificates) into a single PDF file with a size of up to 5 megabytes.