PhD-position in Geology
University of Bern

Project:
This PhD-position is part of the project „Fluids and new fluid tracers in water under-saturated continental crust: From rifting to tectonic inversion“, which investigates veins in the continental middle crust of the Alps (Switzerland). The studies will combine microstructural, stable isotope and geochronological methods. The goal will be to develop and apply a new tool to unravel possible fluid sources and fluid pathways in exhumed continental middle crustal units.

Description of work:
Based on key field outcrops, the PhD candidate will analyse epidote veins as a new fluid tracer. The work includes microstructural and petrographic descriptions of veins (light microscope, SEM, EMPA). In addition, hydrogen isotopes will be analyzed (cooperation with Andreas Mulch; University of Frankfurt). The timing of the fluid flow and related vein formation will be investigated by U/Pb dating by LA-ICPMS and TIMS methods.

Requirements:
The candidate will write a PhD thesis based on the research carried out during the project, consisting of a minimum of three first-author publications. We are looking for a motivated candidate who holds an MSc degree in Earth-Science (experience in geochemistry is of advantage). The duration of the PhD project is 3-4 years.

Please send a cover letter (outlining your motivation and research experience, max. 2 pages), CV (max. 3 pages), academic transcripts of your studies and the names and contact details of two references (all combined into one PDF-file) to Alfons Berger (alfons.berger@geo.unibe.ch)

Application deadline: Applications will be accepted until the position is filled. Start of the position will be as soon as possible, but no later than October 2018.

Informations: For additional information please contact Alfons Berger (alfons.berger@geo.unibe.ch)