

The Structural Geology Group at the Institute of Geosciences, Friedrich-Schiller-University Jena, Germany, seeks a PhD student for research in a newly funded project entitled

ALMOND (Albania and Montenegro Neotectonic Deformation)

to be filled until the 01 April 2015.

Required qualifications:

- An undergraduate degree in geology/geosciences (MSc, Diplom or equivalent).
- The successful candidate is expected to bring enthusiasm for working outdoors, as he/she will be expected to carry out field work for extended periods in partly remote, mountainous terrain in Montenegro and northern Albania.
- A proven record of geological mapping skills is hence very desirable; acquaintance with GIS is advantageous.
- Driver's license (category B)

Main tasks:

- See project description below.
- It is expected that applicants take advantage of the opportunity to obtain their PhD within the frame of the project.

The salary depends on the regulations of the labour contracts for employees in the public service of the German federal states (so-called "TV-L"), commensurate to personal requirements up to tariff group 13.

The position is restricted to 3 years.

Disabled applicants will be treated with priority over non-disabled ones in case of equal qualifications.

Applications, including a meaningful motivation letter, CV and transcripts, should be sent by 23 January 2015 to my department address:

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Chair of Structural Geology
Faculty for Chemistry and Geosciences
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Please refer to job advertisement registry number 209/2014 when sending your applications.

The official job announcement (in German) can also be found at the Job board of the University Jena.

An English version with slightly more information is placed on our group website.

Project description

The fold-and-thrust belt of the Dinarides-Hellenides on the Balkan Peninsula is a rare example of active continental subduction. Project ALMOND aims at studying its active

tectonics in an area of transient kinematics between Montenegro and northern Albania. Several anomalous features characterize this area, such as northward-diminishing seismic moment release, northward disappearance of a continental lithospheric slab and northward end of syn-collisional extension related to subduction rollback in the Aegean Sea. The study area hosted numerous historical earthquakes as well as one of the strongest instrumentally recorded earthquakes in Europe (Montenegro 1979, MW 7.1). GPS studies indicate convergence between Adria and Eurasia at rates of 4–5 mm yr⁻¹. Long-term convergence rates, by contrast, are unconstrained.

The project forms a collaboration with the RWTH Aachen and the Freie Universität Berlin and is funded by the German Research Foundation (DFG). Within the project part based in Jena, we aim at characterizing the structural basis of this transient kinematic behaviour by constructing balanced cross sections in two regional transects on either sides of the orogen-perpendicular Skutari-Pec Fault, which delimits syn-collisional extension to the north. In addition, it is foreseen to improve geometrical constraints on (partly seismically active) faults using subsurface data in the external part of the thrust belt.