

PhD Position in Applied Geophysics, Montanuniversität Leoben, Austria.

One vacant position for a part-time Scientific Project Researcher (m/f/d) at the Chair of Applied Geophysics, Department of Applied Geosciences and Geophysics, Montanuniversität Leoben, starting c.a. March 2022 on a three-year fixed-term contract. Salary Group B1 of the Austrian labour agreement, monthly minimum excl. supplements € 2.228,60 for 30 hours per week, (14 x annually). The actual classification is based on the guidelines of the Austrian Science Fund (FWF) or work-specific previous experience that can be credited.

The position is part of the recently funded grant from the FWF on Origins of Seismic Reflectivity in Lower Crustal Rocks, which will be conducted within the framework of the Drilling the Ivrea-Verbano zone (DIVE - <http://www.dive2ivrea.org/>) project. A Master's degree in geophysics, physics or a similar discipline is required at the time of the appointment, as well as the wish to obtain a PhD degree.

The successful applicant will have a solid understanding of seismic wave propagation, as well as a strong scientific computer programming background preferable in Python or MATLAB. The ability and willingness to work long hours in the field during the drilling campaign is essential, and a working knowledge of seismic instruments and seismic data processing is desirable. The applicant must be fluent in spoken and written English. Knowledge of Italian or German languages and a European (or transferable) driver's license are desirable.

The position will involve seismic-while-drilling (SWD) and borehole vertical seismic profiling (VSP) experiments to image and characterize the perforated lithologies. The candidate is expected to adapt and develop signal processing techniques tailored to SWD and VSP in crystalline rocks, and to relate the resulting signals back to their geologic and petrophysical origins.

The position offers an excellent opportunity for a young researcher to work in an interdisciplinary international project of high impact with plenty of opportunities to network and start an academic career.

Please submit your application in English no later than 01.02.2022 using the online form on the Montanuniversität website <https://www.unileoben.ac.at/jobs>.

For your application, please include

- CV
- Copies of diplomas and university transcripts
- Letter of motivation
- Names and contact information of two referees

For further questions, please contact the secretary (geophysik@unileoben.ac.at), or Dr Andrew Greenwood (andrew.greenwood@unileoben.ac.at)

Reference ID: **2111WPE**

End of Application: 2022-02-01