

Job Offers

The Helmholtz Centre Potsdam GFZ German Research Centre for Geosciences is the national research centre for Earth sciences in Germany. With 1280 employees, the GFZ is conducting interdisciplinary research on the "System Earth" and the influence of humans on the planet. As a member of the [Helmholtz Association](#), it is part of Germany's largest science organization.

For Section 6.4 "Centre for Scientific Drilling"/ Department 6 "Geotechnologies" we invite applications for a

PhD position "Core-log-seismic integration in hard rock environments using the ICDP drilling project COSC-1, Sweden" (m/f)

Reference No. 24/64/17 D

Section 6.4 is devoted to scientific drilling and to geophysical investigations in the underground applying e.g. high-resolution seismic exploration and geophysical downhole logging. The successful candidate will play a central role in the DFG funded project: "Core-log-seismic integration in hard rock environments using the ICDP drilling project COSC-1, Sweden". The project investigates geophysical properties of rocks from Seve Nappe Complex at the COSC-1 borehole (Sweden) and will establish a high-resolution seismic stratigraphy using the core-log-seismic integration method (CLSI). CLSI is a strategy to integrate data with different spatial resolution from core measurements, downhole logging and seismic data. The work involves laboratory analyses on core samples using different technique and instruments at GFZ in Potsdam, Germany and ETH Zürich, Switzerland. The work will be conducted in close collaboration with GEOMAR Helmholtz Centre for Ocean Research Kiel. The candidate will spend the first two years at GFZ followed by a third year at Geomar in Kiel.

Tasks:

The successful candidate will be involved in GFZ activities in the following fields of work:

- analysis and interpretation of the physical and petrophysical properties of core samples
- integration of core and downhole logging data into surface seismic data
- seismic inversion of the seismic data
- comparison of the core log seismic integration method applied on marine/lacustrine environments vs. application on crystalline rocks
- preparation and presentation of results in project meetings, symposia, and in scientific journals

Qualifications:

- Master's degree or an equivalent degree in Geophysics or a related discipline with good knowledge in Geology
- interest in laboratory measurements
- experience in seismic analysis and interpretation of data
- interest in integration of different datasets (core, logging and seismic data)
- computer programming skills (e.g. Matlab)
- capability to work independently
- ability in writing scientific papers for international journals

- ability for and willingness to work in a multidisciplinary team and to communicate with external partners
- good communication skills in English
- readiness for business travels

Starting date as soon as possible
Fixed term 3 years
Salary EG 13 TVöD-Bund (Tarifgebiet Ost)
Working hours part-time 75% (currently 29.25 h/week)
Location Potsdam, Kiel

You can expect a very diverse and challenging job in an international work environment that is characterized by exciting research projects. The compatibility of work and family life is of particular concern to the GFZ. Therefore, it offers the opportunity for flexible working time and workplaces. Moreover, there is a kindergarten located on the research campus.

The GFZ is a partner with Geo.X (www.geo-x.net), and as such it is well connected with other geoscience institutions in Potsdam and Berlin. Geo.X forms the largest regional cluster of geoscientific expertise in Europe and offers excellent opportunities for cooperation and development.

Please submit your application by **31. May 2017** quoting the reference no. **24/64/17 D** via email to applications@gfz-potsdam.de. Please combine your application documents (letter of motivation, CV and certificates) into a single PDF file with a size of up to 3 megabytes.

Equal opportunity is an inherent part of our personnel policy. Therefore we are particularly welcoming applications from qualified women. Severely disabled persons will be given preferential treatment in the case of equal qualification.

We will retain your application documents for at least three months, even if the application is not successful. They will not be returned.

If you have any questions regarding this job offer, please feel free to call Mrs Albrecht at +49 (0) 331-288-28878.