



Hannover, 01.03.2023

## **job advertisement B 16/23 (B3.2)**

The **FEDERAL INSTITUTE FOR GEOSCIENCES AND NATURAL RESOURCES (BGR)** is looking for you as of September 1st, 2023 for a **limited period until August 31st, 2025 (2 years)**

### **Scientific employees (m/f/d)**

The FEDERAL INSTITUTE FOR GEOSCIENCES AND NATURAL RESOURCES (BGR) is the central geoscientific advisory body of the federal government with its headquarters in Hanover and two other offices in Berlin-Spandau and in Cottbus. As a geoscientific competence center, it advises and informs the federal government and German industry on all geoscientific and raw materials issues.

The BGR is looking for a scientific employee for the methodological further development and combination of high-resolution reflection seismics and wave field inversion. At two locations of the ICDP project "Drilling Overdeepened Alpine Valleys" (Sites Schäftlarn, D; Bad Aussee, AUT), seismic measurements with P and S waves are being carried out together with the project partners involved. Based on the collected data, an interaction of both evaluation methods as well as suitable evaluation strategies should be developed.

#### **Your tasks:**

- Acquisition of seismic data in Germany and Austria
- Seismic reflection evaluation and wave field inversion
- Programming/further development of the full waveform inversion code DENISE
- Development of suitable evaluation strategies
- Presentation and publication of the results in English

#### **Your profile:**

You have a university degree (MSc or equivalent) in geophysics, geosciences, physics or a comparable subject.

#### **What we expect from you:**

- Practical experience in acquiring seismic data
- Extensive knowledge of reflection seismic processing and/or solid experience of seismic wave field inversion
- Knowledge of at least one higher programming language
- Willingness and suitability for field work in Germany and abroad (approx. six business trips lasting several days during the project)
- Good spoken and written English language skills (comparable to level B2 GER)



- Ability to work in a team, ability to work independently and on one's own responsibility

### Ideally you bring it with you:

- Professional experience with a (federal) authority or a federal departmental research institution
- PhD in geophysics
- Good German language skills (comparable to level B2 GeR) and good verbal and written skills
- Knowledge of the geology of the Alps and the foothills of the Alps
- Ability to work interdisciplinary
- Experience in scientific publishing

### We offer you:

- Responsible and varied activities at the Hanover location
- Classification, depending on personal requirements, up to salary group **14 TV EntgO Bund**
- A job that is also suitable for part-time work
- Flexible working time models
- A continuous offer of further education and training

Depending on the area of responsibility, mobile working and flexible working time, models are possible.

The BGR has a health offer, very good public transport connections, free parking spaces for employees and a canteen.

Applications from people of all nationalities are welcome, regardless of their origin, gender, religion or belief, disability, age or sexual identity. Communication language is German. The BGR also pursues the goal of professional equality for women and men. We therefore particularly welcome applications from women. Furthermore, the BGR strives to increase the proportion of severely disabled people, so they are given preferential treatment if they are equally qualified.

Please send your application with meaningful documents (including your certificates and proof of qualification), if possible **by e-mail**, by **March 29th, 2023**, stating the job advertisement number **B 16/23** and the password "**ChatSeis**" to the following e-mail address:

[jobs@bgr.de](mailto:jobs@bgr.de)

You can find more information about our institution on the Internet at [www.bgr.bund.de](http://www.bgr.bund.de). Ms. **Schubarth-Engelschall** can provide information by telephone on **0511/643-2436**.



BGR is interested in the medium through which you became aware of this job advertisement. Therefore, please indicate where you first became aware of this job advertisement.

The protection of your data is important to us. You can find more detailed information on the handling of your personal data in the event of an application to BGR in the data protection declaration at <https://www.bgr.bund.de/datenschutzerklaerung-bewerbungsdaten>.