![BGR Bundesanstalt für Geowissenschaften und Rohstoffe]

The **BUNDESANSTALT FÜR GEOWISSENSCHAFTEN UND ROHSTOFFE (BGR)
[FEDERAL INSTITUTE FOR GEOSCIENCE AND NATURAL RESOURCES]** seeks you as

Research associate (male/female/diverse)
in the project "ThermoOptiPlan"

We are the central geoscientific authority of the German Federal Government with the main location in Hanover and with two further locations in Berlin-Spandau and in Cottbus. As geoscientific center of competence, we are providing advice to the German Federal Government and to German industry in all geo-relevant questions.

Start of employment: immediately
Duration of employment: limited until Dec 31, 2027
Working time: full time (also suitable for part-time)
Salary: TVöD federal public-sector pay grade 14

Application deadline: Jan 15, 2025
Place of work: Hanover, Germany
Application number: B 137/24 (B2.3)
Key word: Modellierung des reaktiven Stofftransports

Job description

Within the project "ThermoOptioPlan – Optimierung der Planung und des Betriebs on Geothermiesystemen mittels innovativer Prognosetools" (Optimization and planning of the operation of geothermal systems using innovative prognosis tools) is the focus of this position on the **development and application of a coupled numerical model for the simulation of flow, transport and reactive processes in the geothermally explored subsurface**.

- Development of modeling concepts and adaptation of source codes of numerical models for the simulation of coupled flow, transport and reactive processes in groundwater
- Model simulations of processes (flow, transport, reactions, clogging) in subsurface systems used for the operation of geothermal doublets – in cooperation with other subprojects
- Publication of the results in scientific journals and reports

We expect

You have a university degree (Master or equivalent) in natural science or engineering with focus on dynamic processes in the subsurface.

- Proven in-depth knowledge and experience in the quantitative description of processes in the subsurface
- Proven in-depth knowledge and expertise in the development and/or application of numerical models
- Very good programming skills (e.g., Python, C++)
- English language skills (level C1)

Ideally you also have

- A PhD in a relevant discipline
- Experience in interdisciplinary team work
- Good communication skills, flexibility and very good organizational skills

![Zertifikat seit 2018 audit berufundfamilie]

- Experience in writing publications (with peer review)
- Knowledge in the field of geothermal energy
- Experience in working for a (federal) authority or a federal research institution

We offer

- Salary according to **TVöD (federal public sector salary scheme) pay grade 14**
- Flexible family-oriented working hour schemes
- A continuous offer of further education and training
- Mobile working is possible depending on working tasks

Applications from all persons are welcome regardless of their nationality, origin, gender, religion, ideology, disability, age, or sexual identity. The BGR aims at equal opportunities for women and men. Applications of women are thus explicitly welcome. Furthermore, BGR aims to increase the number of disabled employees. Applications of these persons - if equally qualified - are thus given priority.

Did we gain your interest?

Then we are happy to receive you applications via https://interamt.de/koop/app/stelle?3&id=1236421 until Jan 15, 2025.

You can find further information on your institution at www.bgr.bund.de. For questions you can contact Prof. Dr. Georg Houben at +49-(0)511-6432373.

The protection of your data is important to us. Information on our handling of person-related data in the case of an application at the BGR you can find in our data protection statement at https://www.bgr.bund.de/datenschutzerklaerung-bewerbungsdaten.