Leibniz Institute for Applied Geophysics

Zertifikat seit 2018
audit berufundfamilie

The LEIBNIZ INSTITUTE FOR APPLIED GEOPHYSICS (LIAG) is looking for you to start as soon as possible with 75% of the regular weekly working time limited until 31.12.2024, with the possibility of extension for an additional 18 months as

Research Scientist (m/f/d)

Job posting number G 9/23
Keyword: „E4Geo – Potential Field Methods“

Your tasks:

In the context of the geothermal research project 'E4Geo', the department 'seismic, gravimetry, magnetics' at LIAG is seeking a qualified candidate to work with an interdisciplinary research project in collaboration with the Geological Survey in Saxony, GFZ, and TU Bergakademie Freiberg. The goal of this project is to advance the understanding of the geothermal energy potential in the Eichigt-Schönbrunn region of Saxony, specifically in the area of the covered granite massif.

In the first phase of the project, the successful candidate will compile and integrate data from various sources, including field, laboratory, and subsurface imaging methods. This may involve conducting new gravity measurements. The candidate will process the gravity and magnetic data and utilize geological and petrophysical information to develop a 3D forward model. The candidate will also perform a sensitivity study to assess the uncertainties associated with the model.

In the second phase of the project, the focus will be on transferring the results obtained in the first phase into a preliminary reservoir model. The 3D geological modelling results will serve as input for numerical simulation, which is crucial for an accurate assessment of the geothermal potential.

Depending on personal interests and qualifications, the position can be used to write a doctoral thesis.

Required qualifications and experience:

- University Degree (Master or equivalent) in Geophysics or Geosciences with a focus on Geophysics or a comparable field of study
- Command of English (at least comparable to level B2 GeR)
- Knowledge of potential field data processing
- Knowledge of forward modelling of potential field data
- Knowledge of the geological interpretation of potential field data
- Knowledge of heat transport processes
- Strong motivation to succeed in scientific research
- Good presentation and scientific writing skills
- Well-organized and structured way of working
- Willingness to learn the German language

Ideally, you also meet the following requirements:

- Experience in programming (e.g., Python, Matlab, Fortran)
- Experience of using relevant modelling software, e.g. IGMAS+, Geomodeller, or SKUA-GOCAD software
- Experience of using geothermal modelling software (e.g. FEFLOW, or COMSOL)
- Knowledge of GIS, e.g. ArcGIS or QGIS
- Driving licence, class B

We offer:

LIAG enjoys an excellent reputation, both nationally and internationally. The institute is characterized by excellent infrastructural integration into the GEOZENTRUM Hannover, state-of-the-art and high-performance equipment (IT, laboratory, field), strong networking, and a friendly, professional and collegial working-environment. LIAG promotes further education and training of its staff.

The place of employment is Hannover, Germany. The salary for the position will be according to salary group EG 13 TV-L (Collective Agreement for public service of the German states, TV-L), taking into account § 40 No. 5 TV-L (consideration of professional experience).

We welcome applications from people of all nationalities, regardless of their origin, gender, religion or belief, disability, age or sexual identity. LIAG also pursues the goal of equal professional rights for women and men. Therefore, we particularly welcome applications from women. With flexible working hours, we offer you a responsible and varied job that is also suitable for part-time employees and as a re-entry after parental leave.

The LIAG endeavours to increase the proportion of severely disabled people, which is why they will be given preference, if they are equally qualified.

Please submit your application electronically (PDF with max. 10 MB), with meaningful documents, but without photo, quoting the job advertisement number **G 9/23** and the keyword **‘‘E4Geo-Potential Field Methods”** to career@leibniz-liag.de until 20.06.23.

More information about our institute is available on our website www.leibniz-liag.de. For further information, please contact Dr. Mohamed Sobh at Mohamed.Sobh@leibniz-liag.de