

The LIAG-INSTITUTE FOR APPLIED GEOPHYSICS has a vacancy for the following permanent, full-time (100%) position to be filled to the next possible date

**Head of research area ‘Dynamic Modelling’ (m/f/d)
in the research department ‘System Integration’ (F3)
(A 15 NBesG or EG 15 TV-L)**

In addition to leading the research area, close cooperation with the head of the research area ‘Static Modelling’ is required to develop the main research topics ‘Groundwater, Geohazards and Georeservoirs’.

Strategically, a joint professorship with a university based on the “Thüringer Modell” is planned. The position could be filled with a researcher already established as a professor by a secondment or assignment in agreement with a university.

The position includes the following tasks:

- Head of the research area ‘Dynamic Modelling’ at LIAG with the topics:
 - Modelling of coupled processes in georeservoirs
 - Multiphase flow modelling
 - Regional modelling of complex hydrosystems including partially saturated flow
 - Modelling of hydrogeomechanical processes (laboratory and field)
- Cooperation with the LIAG research departments ‘Geophysical Exploration’ (F1) and ‘Geophysical Parameterisation’ (F2)

The primary task of the head of ‘Dynamic Modelling’ is the development and establishment of a research focus on ‘Georeservoirs as energy source and energy storage’ together with the director of the institute, the head of the ‘Static Modelling’ working group and the heads of LIAG research departments F1 and F2.

This includes:

- Strategic and scientific development of the research area in close collaboration with the other research areas and departments at LIAG
- Initiation, coordination and management of scientific research projects as well as large-scale and collaborative projects
- Maintaining and expanding national and international scientific contacts and collaborations
- Actively supporting the institute's re-admission process to the Leibniz Association
- Publication of scientific results in peer-reviewed journals
- Contributing to the institute's external image and public relations work

Required qualifications and experience:

- University degree (Master degree or equivalent) in geophysics, physics or an engineering or geoscientific discipline related to LIAG's fields of activity
- PhD, preferably in the field of numerical hydrosystem and / or reservoir modelling
- Habilitation or habilitation equivalent qualifications

- Experience in the acquisition and coordination of (collaborative) research projects within national and international scientific networks
- Publications demonstrating excellent expertise in model development and model application (preferably multiphase processes)
- Experience in the development and application of mathematical modelling techniques for the simulation of flow, heat and (reactive) mass transport on a pore (process) and regional (reservoir) scale
- Experience in data management and software development
- High resilience, social competence and team orientation
- Leadership and management experience
- Very good knowledge of German and English (comparable to level C1 GeR)

Ideally, you will also meet the following requirements:

- Knowledge of modelling of hydrogeomechanical processes
- Knowledge of geoscientific challenges regarding the topics of final disposal of radioactive waste, CO₂ storage, geothermal energy and the safety of unconventional forms of energy
- Knowledge of and experience with non-university research institutions and in project collaboration with industrial partners

We offer:

LIAG enjoys an excellent reputation both nationally and internationally. Due to its excellent infrastructural integration into the GEOZENTRUM Hannover (GZH) and its strong network, the institute is characterised by a very flexible working environment. You will find state-of-the-art and high-performance equipment (IT, laboratory, field) as well as a professional, team-orientated and collegial working environment.

The place of employment is Hannover, Germany. The position is classified according to BesGr. A 15 NBesG. For employees covered by collective agreements, the classification is in pay group 15 of the collective agreement for the public service (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. The workplace is conditionally suitable for part-time work.

LIAG is certified to carry the 'audit berufundfamilie' quality seal. We offer a responsible and diverse workplace with flexible working hours.

LIAG endeavours to increase the proportion of severely disabled people, so they will be given preferential consideration if equally qualified.

Please submit your application electronically (PDF with max. 10 MB) with meaningful documents, quoting the job advertisement number **G 31/24** and the keyword **“Head Dynamic Modelling”** via career@leibniz-liag.de to

**LIAG Institute for Applied Geophysics
- Administrative Leitung –
Stilleweg 2, 30655 Hannover**

until **08.10.2024**. More information about our institute is available on our website www.leibniz-liag.de. For further information, please contact the Director of LIAG, Prof. Dr Martin Sauter, via +49 (0) 511/643-2301.

Please note that this is a translation of a German job advertisement. The information is without guarantee of accuracy and completeness.