The LIAG-INSTITUTE FOR APPLIED GEOPHYSICS is offering a fixed-term position for 36 months with 75% of the regular weekly working hours at the earliest possible date as a

Research Associate (m/f/d)
E13 TV-L

Reference: G 41/24 'REGROUP-ii'

The LIAG-Institute for Applied Geophysics is an independent research institution in Hanover. Within the major subject areas of 'Geohazards', 'Groundwater (Systems)' and 'Georeservoirs', one focus is the investigation of sediments and sedimentary rocks. This also includes the analysis of environmental changes and their effects on sedimentological processes.
LIAG offers a wide range of opportunities for personal and professional development, an active and inspiring scientific environment and excellent networking in the international research landscape.

In the DFG-funded project 'Quantifying the linkage between meteorological data and geophysical soil properties: understanding past and present climate proxy power (ClimeLink)', the influence of climate parameters (temperature and especially precipitation) on geophysical soil properties in the Danube catchment (along a climate gradient from west to east) is to be analyzed. The focus here is on the recent/Holocene topsoil, but investigations will also be carried out into the last interglacial period approx. 120,000 years ago. Main focus are rock magnetic investigations, which are carried out at the external laboratory Grubenhagen near Einbeck.
The project work mainly takes place at the LIAG in Hanover, but also at the Grubenhagen laboratory near Einbeck. In addition, visits to the project partners and field work under the simple conditions in rural India (Kashmir) are planned. The work includes data collection in the laboratory, as well as the statistical analysis of the collected data and the writing of publications.

Your tasks:

- Planning and carrying out field work (sampling of topsoils) together with cooperation partners in the Danube catchment area. Sampling of fossil soils in the field, outcrops or from drill cores
- Data collection, laboratory work (environmental magnetic properties)
- Data analysis, comparison with literature data, data interpretation especially with regard to paleoclimatic questions
- Preparation of scientific publications in English language in peer-reviewed journals within the project period
- Presentation of scientific results at national and international conferences
- Willingness to complete a PhD

Your skills:

- Completed university degree (MSc or equivalent) in geophysics, geosciences, geology, geoecology, geography or similar
- Knowledge in sedimentology and paleoclimatology, as well as data collection in the laboratory

- Experience with laboratory work and documentation of measurements, ideally experience with rock magnetism and grain size analysis
- Experience with field work including soil sampling and -description
- Self-motivation and self-initiative, ability to work under pressure (working under clear time constraints)
- Independent and structured way of working
- Ability for interdisciplinary cooperation in an international team, communication and teamwork skills
- Good knowledge of English (at least comparable to level B2 GeR)
- Willingness to travel for several consecutive days and weeks, even under the simplest conditions (field work even in bad weather and on steep terrain, conferences, project partners)
- Class B driving license or willingness to obtain one

Ideally, you will also fulfil the following requirements:

- Experience in the assessment, analysis and interpretation of rock magnetic data
- Knowledge of palaeoclimatic processes, especially in the Quaternary
- Initial programming experience (especially in R)
- Interest in geophysical methods for the characterization of various sediments

We offer:
The LIAG-Institute for Applied Geophysics 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 the further education and training of its staff.

The place of work is Hanover. The position is classified in pay group 13 of the collective agreement for the public service of the federal states (TV-L), taking into account § 40 No. 5 TV-L for the step allocation.

Applications from people of all nationalities, regardless of their origin, gender, religion or ideology, disability, age or sexual identity are welcome. The LIAG also pursues the goal of professional equality between women and men. We therefore particularly welcome applications from women in this area. Within the framework of flexible working hours, we offer you a responsible and multifaceted job that is also suitable for returning to work, e.g. after parental leave.

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

Please send your electronic application (PDF with max. 10 MB) with informative documents to Dr Christian Zeeden by **12.12.2024**, quoting the reference **G 41/24** '**REGROUP-ii**' via career@leibniz-liag.de.
Further information on LIAG can be found on the Internet at www.leibniz-liag.de. For further information, please contact Dr Christian Zeeden via +49 (0)511-643-3497 or by email at Christian.Zeeden@liag-institut.de.