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The Institute of Geotechnics at the Department of Civil and Environmental Engineering has a vacancy for a

## Research Assistant/Postdoctoral Researcher (Postdoc) (all genders)

in a temporary employment contract (initially 2 years). An extension of the employment relationship is generally intended.

We want to strengthen our team with your expertise in geotechnical (large-scale) experiments. Together with the head of the institute, you will lead the sub-projects of TU Darmstadt in the EU project GEOLAB (→ <https://project-geolab.eu/>) and represent the Institute of Geotechnics in the European consortium.

### Main tasks:

As part of the EU project GEOLAB and other research projects, we will conduct numerous demanding large-scale tests in our facility in the coming years. You will design these large-scale tests together with our European partners, carry out the detailed planning with the Institute's technicians as well as accompany and manage the execution of the experiments.

In addition to the scientific management of these experiments, your tasks include the further development of our experimental equipment and facilities. Currently, central elements of the experimental facilities, such as the loading system of the geotechnical test pit or the measurement technology, are being newly procured or modernised. You contribute to this with your well-founded expertise and provide new impulses for further developments. To do this, you will build up a close cooperation with the team of scientists and technicians at the institute.

### Prerequisites:

We are looking for applicants with a very good degree and doctorate who are distinguished by high analytical skills, creativity, an independent way of working and a high level of motivation and initiative. Due to the high experimental part of the work, related previous experience is required. A strong ability to work in a team is of great importance. For reliable communication in the European research project, a good command of written and spoken English is required; a very good knowledge of German is an advantage.

In-depth knowledge in several of the following areas is desired:

- Experience in project management in large collaborative projects or European projects,
- Geotechnical measurement techniques for scientific monitoring of large- and small-scale model tests, laboratory tests and in-situ tests,
- Knowledge of sample preparation in geotechnical model and laboratory tests,
- Experience in data management and evaluation of model tests,
- Geotechnical numerical simulations

In addition to the experimental activities, the scientific exploitation of the results in the form of publications and research presentations is of great importance, especially within the framework of GEOLAB. Corresponding publication successes in renowned journals in German or English are therefore a prerequisite. Initial experience in independently applying for research projects is also advantageous in order to acquire new experimental research projects. Practical experience from the management/cooperation of/industrial projects will also be positively evaluated.

As part of the job, other scientific staff (doctoral students) as well as student assistants and staff in the experimental facilities are to be instructed and supervised.

At the Institute of Geotechnics, a diverse range of teaching is offered in addition to subject-related research. An interest in the applicant's collaboration in this field will be positively evaluated.

The fulfillment of the duties likewise enables the scientific qualifications of the candidate. Opportunity for further qualification (habilitation) is given.

The Technische Universität Darmstadt intends to increase the number of female employees and encourages female candidates to apply. In case of equal qualifications applicants with a degree of disability of at least 50 or equal will be given preference. Wages and salaries are according to the collective agreements on salary scales, which apply to the Technische Universität Darmstadt (TV-TU Darmstadt). Part-time employment is generally possible.

Please send your application documents (including copies of certificates) by e-mail in the form of a pdf document to Prof. Dr.-Ing. Hauke Zachert, e-mail: [hauke.zachert@tu-darmstadt.de](mailto:hauke.zachert@tu-darmstadt.de), quoting the identification number.

By submitting your application, you agree that your data may be stored and processed for the purpose of filling the vacancy. You can find our → [privacy policy](#) on our webpage.

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