



Technische Universität Berlin



Research Assistant - salary grade E 13 TV-L Berliner Hochschulen

under the reserve that funds are granted
part-time employment may be possible

Faculty VI - Planning Building Environment, Faculty VI - Institute of Civil Engineering / Robot-Assisted Manufacturing of the Built Environment

Reference number: VI-285/25 (starting at 01/12/25 / limited until 30/11/2027 / closing date for applications 12/09/25)

Your responsibility:

This project is about the development of a clay-based material for the production of an ecological and mechanically optimized ceiling construction using mineral 3D printing. The more environmentally friendly alternative to the Portland cement otherwise used in concrete production is intended to reduce CO2 emissions, improve the global ecological footprint and thus contribute to an increase in sustainability in the construction industry. The main tasks of this position are listed below:

- Independent processing of the research project in the field of earth 3D printing
- Implementation and conception of experimental test campaigns, independent data evaluation and interpretation (rheological investigation, 3D printing tests, mechanical characterization, supplementary analysis)
- Writing scientific texts and presenting research results
- Supervision of research-related student work

The possibility of a doctorate is given.

Your profile:

- Successfully completed scientific university degree (Master, Diplom or equivalent) in mineralogy, civil engineering, materials science, environmental engineering or equivalent
- Knowledge and initial practical experience in laboratory testing (building material testing), measurement technology (sensor technology, force and strain measurement) and image processing
- Good knowledge of German and/or English required; willingness to acquire the respective missing language skills.
- Good command of IT (e.g. CAD, programming, word processing) is desirable
- Ability to work in a team is desirable
- Initiative, flexibility, creativity and a responsible way of working are a plus

How to apply:

Please send your application with the **reference number** and the usual documents **only by email** (single pdf file; max. 5 MB) to Inka Mai (mai@tu-berlin.de).

By submitting your application via email you consent to having your data electronically processed and saved. Please note that we do not provide a guarantee for the protection of your personal data when submitted as unprotected file. Please find our data protection notice acc. DSGVO (General Data Protection Regulation) at the TU staff department homepage: https://www.abt2-t.tu-berlin.de/menue/themen_a_z/datenschutzerklaerung/.

To ensure equal opportunities between women and men, applications by women with the required qualifications are explicitly desired. Qualified individuals with disabilities will be favored. The TU Berlin values the diversity of its members and is committed to the goals of equal opportunities. Applications from people of all nationalities and with a migration background are very welcome.

The vacancy is also available on the internet at:
<https://www.jobs.tu-berlin.de>

