



Technische Universität Berlin



Research Assistant - salary grade E13 TV-L Berliner Hochschulen

part-time employment may be possible

Faculty VI - Planning Building Environment, Faculty VI - Institute of Architecture

Reference number: VI-355/25 (starting at 01/12/25 / for 24 months, extension possible if necessary / closing date for applications 19/09/25)

Your responsibility:

We are looking for a research assistant conditionally to the approval of the research proposal to carry out a research project on the topic of 3D-printing of vault shaped ceilings made of clay, who will work closely with the other research participants on the following tasks, among others:

- Development and optimisation of clay mixtures for use in 3D printing
- Derivation of a numerical material model of clay mixtures
- FEM modelling of the cap ceiling elements, taking into account the support situation and internal structure of the elements
- Validation and, if necessary, adaptation of the material model and the FEM modelling through tests
- Optimisation of the geometry of the cap elements

Your profile:

- Successfully completed scientific university degree (Master, Diplom or equivalent) in the field of civil engineering
- In-depth knowledge of structural engineering
- Very good understanding of load transfer in structures
- Very good knowledge of German required
- Interest in interdisciplinary collaboration with architects desirable
- Ability to develop load-bearing concepts and think conceptually desirable

How to apply:

Please send your application **with the reference number** and the appropriate documents (combined in a single pdf file, max 5 MB) **by email to Prof. Dr.-Ing. Kerstin Wolff via office@tek.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 guaranty 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>

