

**Technische Universität Berlin**

Technische Universität Berlin offers an open position:

University professorship – remuneration group W3

for the professorship of „Structural Engineering – Lightweight Structures“.

Faculty VI (Planning Building Environment), Institute for Civil Engineering

Reference number: VI-86/25 (starting at 01/10/25 / permanent / closing date for applications 11/04/25)

Working field:

We are looking for someone with a proven record to conduct research and teach in the field of Structural Engineering – Lightweight Structures in close interdisciplinary cooperation with the other academic professorships and research groups within the Institute of Civil Engineering at TU Berlin. The defining focus of the professorship is the cross-material consideration of load-bearing structures.

Teaching will be primarily in the bachelor's and master's degree courses in Civil Engineering and cover the fundamentals of structural engineering as well as the design, modeling, dimensioning, and engineering design of civil engineering structures. Advanced courses are currently offered in the fields of load-bearing structures and lightweight material construction, among other areas. Courses are taught in German. Ideally, the successful candidate would also teach in the English-language Civil Systems Engineering master's program.

The research focus of the professorship is on the analysis, development, and possible applications of a wide range of systems, constructions, and materials for civil engineering structures and lightweight structures. The successful candidate will also be expected to contribute both actively and formatively to the development of the institute through coordinated research projects, especially in cooperation with other academic professorships and research groups within the faculty and TU Berlin, for example to establish a (DFG) research unit or other joint research projects.

Further responsibilities include leading and managing the professorship and its staff; supporting the advancement of junior scholars, women, and diversity; knowledge and technology transfer; initiatives to promote internationalization; gender and diversity competence and sustainability-oriented action; as well as committee work.

Requirements:

Candidates must fulfill the hiring requirements pursuant to Section 100 of the Berlin Higher Education Act (BerlHG). These include a university degree in civil engineering; an aptitude for scientific work (generally demonstrated by the quality of the applicant's doctorate); additional academic achievements (generally demonstrated by a positively evaluated junior professorship, "Habilitation," or other achievements equivalent to the "Habilitation"); as well as an aptitude for teaching (demonstrated in a teaching portfolio. For further information about the teaching portfolio, please see <https://www.tu.berlin/en/go209650/>).

Other requirements include:

- Proven competence and experience in different types of cross-material design and construction of engineering structures as well as lightweight and resource-saving structures.
- Excellent technical and methodological skills, including in experimental methods and the modeling and simulation of structures
- Willingness and ability to offer basic courses in all areas of structural engineering covering all materials
- Experience in the acquisition and implementation of complex, preferably international research projects in the field of structural engineering and in particular lightweight structures

Applicants should have an excellent track record in at least one of the following key research areas reflecting the professorships research and teaching focus:

- Lightweight material structures
- Lightweight structural engineering
- Lightweight systems engineering
- Adaptive structural elements

Expertise and experience in the following areas are also desired:

- Interdisciplinary cooperation with other professions involved in construction, such as architecture and technical building services
- Lightweight structure technologies in existing buildings
- Digital modeling of structures and materials
- Use of digital technologies (e.g. machine learning, AI) for the design and construction of load-bearing structures
- Science communication as well as knowledge and technology transfer

Technische Universität Berlin requires professors to be willing and able to assume responsibility for the management and strategic development of their professorship and staff. In particular, this includes an understanding of the special responsibility of creating gender and diversity-sensitive work and study conditions. The position also requires the

willingness and ability to advance junior scholars, women, and social diversity as well as to contribute to academic self-governance. The successful candidate is expected to be willing and able to contribute new ideas for internationalization and sustainability-oriented action in research and teaching, as well as foster the use of digital technologies in the areas of teaching content, teaching formats, and student services.

As a university with an international profile, we require our professors to have excellent English-language skills and very much welcome applications from candidates whose first language is not German. The successful candidate will be expected to have a command of German or be willing to learn the language as quickly as possible; this is necessary to fulfill the requirements of the job posting (minimum C1 in accordance with the Common European Framework of Reference for Languages).

It is not possible to offer the position as two part-time professorships.

Technische Universität Berlin is seeking to increase the proportion of women in research and teaching and actively encourages applications from suitably qualified female candidates. Preference will be given to applicants with severe disabilities who equally fulfill the requirements of the position. TU Berlin values the diversity of its members and is committed to equality of opportunity. Applications from people of all nationalities and with a migration background are very welcome. We are a certified family-friendly university and our Dual Career Service can assist you and your family with your move to Berlin.

Please submit your application in German or English quoting the **reference by 11/04/2025** with the following documents: CV, certificates, concept for research and teaching, teaching portfolio, list of implemented projects, documents demonstrating further practical experience and developments in lightweight structures, prizes, list of acquired external funding, and a publications list highlighting the five publications you regard as your most significant. Your application must be sent by email as a **single** PDF file to bewerbungen@fak6.tu-berlin.de. Electronic documents submitted using cloud services such as WE-Transfer or Dropbox cannot be accepted. Please address your application to **Technische Universität Berlin – Die Präsidentin, Dekanin der Fakultät VI Planen Bauen Umwelt, Straße des 17. Juni 152, 10623 Berlin.**

TU Berlin is taking steps to make appointment procedures more equitable and has created a form to take academic age into account in appointment procedures as part of a pilot project. The form is to be regularly used in procedures from early 2023. You can download the form (Excel file) from the following website: <https://www.tu.berlin/en/go209647/>.

Please send an email to berufungen@fak6.tu-berlin.de for further information concerning the application process. Specific questions relating to the position should also be sent to this address so that they can be forwarded to the chair of the appointment committee.

By submitting your application via email, you consent to having your data electronically processed and saved. Please note that we cannot guarantee the protection of your personal data when submitted as an unprotected file. Information on the processing of your data in accordance with the General Data Protection Regulation can be found on the website of the personnel department: <https://www.tu.berlin/abt2-t/services/rechtliches/datenschutz/erklaerung-bei-be>

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

