

**Technische Universität Berlin**

Technische Universität Berlin - Faculty II - Mathematics and Natural Sciences, Institute of Chemistry, invites applications for a position of a

University Professor - salary grade W3

for the field of "Catalytic Reaction Engineering".

Faculty II - Institute of Chemistry

Reference number: II-721/24 (starting at the earliest possible / permanent / closing date for applications 21/01/25)

Working field:

The primary responsibilities for this position will be teaching within the entire range of the subject of Chemical Reactor and Reaction Engineering ("Technische Chemie") and the Bachelor/Master courses "Chemistry", "Chemical Engineering" and "Polymer Science". Courses should be held in German and English. The tasks also include supervising students in the preparation of their final theses and appropriately participating in the duties of academic self-administration.

Candidates must represent the field in their research. Research should be related to modern topics in Chemical Reactor and Reaction Engineering ("Technische Chemie") with an emphasis on experimental (spectroscopic) contributions to reaction engineering of catalytic processes on solid materials and in liquid, gas or multiple phases, particularly in the field of sustainable chemistry through circular processes or waste valorization.

The candidates' field of research should be integrated into the research priorities of the Excellence Cluster UniSyscat and thereby offer ample opportunities for cooperation with its research groups.

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

Requirements:

The recruitment requirements according to § 100 BerIHG must be fulfilled. These include, in particular, a university degree in chemistry or chemical engineering or related subject, special aptitude for scientific work, which is usually demonstrated by the quality of a doctorate, additional scientific achievements, which are usually demonstrated by a positively evaluated junior professorship, habilitation or equivalent achievements, as well as pedagogical aptitude, which is documented by a teaching portfolio (for more information on the teaching portfolio, see the website of the Technical University of Berlin: <https://www.tu.berlin/go209650/>)

Suitable candidates should have a proven track record of independent, internationally visible scientific work in an experimental area of Chemical Reactor and Reaction Engineering ("Technische Chemie"), focusing on catalytic interfacial processes. Expertise in the design and construction of reactors for catalytic reactions, the physicochemical and catalytic characterization of catalytic interfaces and reactions using in-situ and operando spectroscopic methods, the technically oriented synthesis of catalysts (e.g., immobilization, support), or life cycle assessment of catalytic processes are key qualifications. Ability and willingness to work in interdisciplinary teams at the interface of theory and experiment is a central requirement. Candidates with a current research focus on UHV surface science and catalysis as well as electrochemistry, electrocatalysis as well as the theoretical description of catalytic processes will not be considered. In the field of electrochemistry, preference will be given to complementary research areas to those at the Institute of Chemistry. Groundbreaking research results in the field of catalysis research must be demonstrated through relevant publications in peer-reviewed journals. A high level of research activity should be evidenced by success in securing third-party funding (documented by grants obtained in the last five years). Active involvement in chemical spin-offs at TU Berlin, specifically in the Chemical Invention Factory (CIF), is expected.

Relevant teaching experience and experience in supervising theses are also expected. Furthermore, experience in academic self-governance and in leading larger research groups is desirable.

The Technische Universität Berlin expects its professors to be able to take responsibility for the management and strategic development of their subject area and their staff. For us, this also includes commitment to the promotion of young talent and women, gender and diversity competence in the sense of creating diversity-sensitive working and study conditions and setting impulses in research and teaching as well as participation in academic self-administration.

As a university with an international profile, we require the ability to teach in German and English or the willingness to acquire missing language skills within a reasonable period of time.

With around 35,000 students, around 350 professorships and around 7,500 employees, Technische Universität Berlin is a University of Excellence within the Berlin University Alliance. We value the diversity of our members, pursue the goals of equal opportunities and are certified as a family-friendly university. With the Dual Career Service, we offer you and your family support when moving to Berlin.

Applicants are asked to include an initial conceptual outline of their planned research and teaching activities with their

application.

Technische Universität Berlin aims to increase the proportion of women in research and teaching and therefore strongly encourages qualified female academics to apply. Severely disabled applicants with equal qualifications will be given preference.

Please send your application stating **the reference number II-721/24** with the usual documents (CV, details of your academic career, copies of certificates, research concept, teaching portfolio, list of publications, the 5 most important publications and proof of third-party funded projects carried out or applied for) **by e-mail as a single PDF file to the Dean of Faculty II, Prof. Dr. Wilhelm Stannat, at appoint@naturalsciences.tu-berlin.de**.

By submitting an online application, you as the applicant give your consent for your data to be processed and stored electronically. We would like to point out that we cannot guarantee the security of personal data transmitted if your application is sent unprotected by electronic means. Data protection information on the processing of your data in accordance with the GDPR can be found on the website of the HR department:

<https://www.tu.berlin/abt2-t/services/rechtliches/datenschutzerklaerung-bei-bewerbungen>.

Technische Universität Berlin – Die Präsidentin – Dekan der Fakultät II, Prof. Dr. Stannat, Sekr. BEL 1, Marchstr. 6, 10587 Berlin

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

