Technische Universität Berlin

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

University Professor - salary grade W3

for the subject area **"Experimental Physics / Multidimensional Nanoscopy"** to be filled.

Faculty II - Institut for Physics and Astronomy
Reference number: II-232/25 (starting at the earliest possible / permanent / closing date for applications 29/07/25)

Working field:

The role involves conducting research and teaching in experimental physics, with a focus on:

- the investigation of nanostructured materials for photonics, quantum photonics, quantum technologies and/or energy conversion using laser radiation in one or more spectral ranges from X-rays to visible light, which is based on laboratory sources and/or large-scale research facilities, and
- the methodological development and application of multidimensional experimental techniques for nanoscience, e.g. with regard to time- or energy-resolved imaging, multidimensional spectroscopy and other modern fields of optical nanoanalytics, X-ray physics or nanophotonics.

The professorship will play a significant role in the Center for Integrated Photonics Research (CIPHOR), contributing methodologically and thematically, particularly in nanoanalytics. This includes the microscopic investigation of photonic and quantum photonic nanostructures, devices, circuits, topological materials, and materials for quantum sensing, quantum communication, and/or energy conversion. The appointee will teach experimental physics, optics, and photonics within the Bachelor's and Master's degree programs of the faculty, as well as experimental physics for non-physics degree programs. Involvement in practical physics courses and seminars is expected. Courses should be delivered in both German and English.

The candidate will offer and supervise research projects for degree and doctoral theses, secure and manage third-party-funded projects, and collaborate closely with existing departments in nanophotonic systems and analytical methods. Leadership and management of staff, promotion of young scientists, women, and social diversity, as well as knowledge and technology transfer, are crucial components of the role. Additionally, the candidate will engage in initiatives for internationalization, gender and diversity competence, sustainability, and committee and commission work.

Requirements:

The recruitment requirements according to § 100 BerlHG must be fulfilled. These include, in particular, a university degree with a focus on subjects relevant to experimental physics, 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/

In addition, several years of subject-specific teaching experience as well as a proven and internationally outstanding research profile in at least one of the above-mentioned research topics, documented by relevant publications, are required.

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. Experience in interdisciplinary cooperation, science communication and knowledge and/or technology transfer is desirable.

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-232/25** 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.

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