Technische Universität Berlin offers an open position:

**Research Assistant - 0.75 working time - salary grade E13 TV-L Berliner Hochschulen - 1st qualification period (PhD candidate)**

**Faculty III - Institute of Materials Sciences and Technologies / Materials Engineering**

**Reference number:** III-65/20 (starting at 01/04/20 / for a period of max. 5 years / closing date for applications 05/03/20)

**Working field:** For reinforcing our team we are looking for a committed research assistant with strong interest in research and teaching in materials science. Our research comprises the development of hierarchically structured materials and the characterisation of structure/mechanical-property relationships on different length-scales. We focus on complex loading combinations, especially fatigue. Specifically, we are looking for a personality aiming at a doctoral degree (Dr.-Ing. or Dr. rer. nat.) and interested in biological and bio-inspired materials. Specifically the successful candidate should be interested in investigating the relationship between microstructure and mechanical properties of natural foamy materials, e.g. nutshells and tree fungi, on different length scales. Bio-inspired materials based on these tissues are possibly integrated in the work. As part of the research work, the department shall be represented on national and international conferences, and the results shall be published in renowned journals. The researcher is further responsible for the used machines and equipment. The department offers a variety of bachelor and master courses for materials science and engineering students, e.g. "Materials Science", "Materials Selection", "Fatigue", or "Bioinspired Materials". The successful candidate will independently supervise lab-courses, advise students, and support the teaching administration. Furthermore, the engaged and qualified supervision of bachelor and master theses is expected. The future team member shall further take part in administrative, organisational and public relation tasks within the department.

**Requirements:**

- Successfully completed university degree (Master, Diplom or equivalent) in materials science, mechanical engineering or similar disciplines;
- keen interest and skill in the development and design of non-standard testing set-ups and deep knowledge of microstructural and mechanical characterization methods;
- experience and talent in performing scientific experiments;
- structured working, organisational skills and good time management;
- ability and keen interest to work in an interdisciplinary, intercultural team, sense of responsibility and reliability;
- very good knowledge of German and English in writing and speaking, so that courses can be given in both languages;
- excellent skills in writing scientific texts and in presenting and discussing scientific results (in English)

**Advantageous qualifications:**

- teaching experience, interest in diversity topics and new teaching methods;
- knowledge of the microstructure/mechanical-property-relationships of biological materials.

Please send your written application with the reference number III-65/20 and the usual documents to Technische Universität Berlin - Der Präsident - Fakultät III, Institut für Werkstoffwissenschaften und –technologien, FG Werkstofftechnik, Prof. Dr. Claudia Fleck, Sekr. EB 13, Straße des 17. Juni 135, 10623 Berlin or by e-mail (in one pdf-document) to office@fgwtberlin.tu-berlin.de. Please note the reference number, and one or two of the topics listed above that you are most interested in.

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.

Please send copies only. Original documents will not be returned.

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