Technische Universität Berlin offers an open position:

**Research Assistant (PostDoc) - 0.75 working time - salary grade E13 TV-L Berliner Hochschulen - 2nd qualification period (Habilitation)**

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

Reference number: III-66/20 (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 holding a doctoral degree (Dr.-Ing. or Dr. rer. nat.) and with a strong interest in numerical simulation in materials science, and aiming at a habilitation. As part of the research work, the successful candidate shall support the head of department in obtaining third party funding and in supervising PhD students with a focus on finite element simulation. Further, 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 give lectures and lab-courses independently, 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, especially in tasks related to teaching organization.

**Requirements:**

- successfully completed university degree (Master, Diplom or equivalent) and doctorate (PhD, Dr.-Ing., Dr.rer.nat.) in materials science, mechanical engineering or similar disciplines;
- practical experience, keen interest and skill in the set-up of finite element models from mCT data, and in modelling and simulation of mechanical properties of materials, under consideration of corrosive environments;
- 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);
- keen interest in building up a research group focused on modelling of mechanical properties of materials by applying for third party funding;
- keen interest in achieving a habilitation.

**Advantageous qualifications:**

- teaching experience, interest in diversity topics and new teaching methods;
- experience in supervising PhD students;
- experience in applying for third party funding;
- experience with Abaqus.

Please send your written application with the reference number III-66/20 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/