Technische Universität Berlin

Technische Universität Berlin offers an open position:

Research Assistant - 0.65 working time - salary grade E 13 TV-L Berliner Hochschulen

under the reserve that funds are granted

Faculty II - Institute for Chemistry / Chair of Physical Chemistry - Molecular Material Sciences
Reference number: II-18/25 (starting at the earliest possible / limited until 31/12/2028 / closing date for applications 21/02/25)

Working field:

Project work in the interdisciplinary sub-project A01 “Hydrogel properties on airway surfaces in health and mucoobstructive lung disease” of the DFG-funded CRC 1449 “Dynamic Hydrogels at Biointerfaces”. Within this project physicochemical properties of mucus will be studied as a function of the health/disease state and in response to therapeutic treatments. In addition, the reaction to the addition of salt, osmolytes and variation of the redox state will be investigated. In particular, the macroscopic and mesoscopic viscoelastic properties as well as the mesoscopic structure will be determined, furthermore their varation as a function of the mucus condition. This work will be done in close cooperation with Prof. Mall's group at Charité Berlin.
PhD thesis preparation is possible.

Requirements:

- Successfully completed university degree (Master, Diplom or equivalent) in chemistry, pharmacy, biochemistry or related subjects
- Good expertise in the field of biological materials and of their function is required as well as competence with respect to the physico-chemical characterisation of such systems
- Good command of German and/or English; willingness to acquire the respective missing language skills

Desirable:

- Competence in biochemistry and with respect to the medical effect of treatment methods
- Knowledge in the areas of rheology and characterisation of colloidal or polymeric systems by means of scattering methods (light and X-ray scattering).

A strong interest to deepen this knowledge by way of a doctoral thesis is expected.

Please send your application **with the reference number** and substantial documents (in a single pdf file, max. 5 MB) **by email to Prof. Dr. Gradzielski (tc7@molmat.tu-berlin.de).**

By submitting your application via email you consent to having your data electronically processed and saved. Please note that we do not provide a guarantee for the protection of your personal data when submitted as unprotected file. Please find our data protection notice acc. DSGVO (General Data Protection Regulation) at the TU staff department homepage: https://www.abt2-t.tu-berlin.de/menue/themen_a_z/datenschutzerklaerung/ .

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. Applications from people of all nationalities and with a migration background are very welcome.

Technische Universität Berlin - Die Präsidentin - Fakultät II, Institut für Chemie, FG Physikalische Chemie - Molekulare Materialwissenschaften, Prof. Dr. Gradzielski, Sekr. TC 7, Straße des 17. Juni 124, 10623 Berlin

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

Zertifikat seit 2008
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