



Technische Universität Berlin offers an open position:

## **Research Assistant - 0.6667 working time - salary grade E13 TV-L Berliner Hochschulen - 1st qualification period (PhD candidate)**

**Faculty III - Institute of Biotechnology / Medical Biotechnology**

**Reference number:** III-97/25 (starting at the earliest possible / for a period of 5 years / closing date for applications 28/03/25)

### **Working field:**

The aim of the qualification (PhD), is to create a complex model of gastrointestinal organoids in a microfluidic system (organ-on-a-chip). The group is interested in better understanding the human gastrointestinal tract, its barrier function and interaction with pathogens. Our group uses human stem cell-derived organoids as a model for the human gastrointestinal tract, and we combine this technology with system-wide approaches such as RNA-seq and targeted approaches such as CRISPR/Cas9-mediated knockout. The gastrointestinal organoid will be combined with another organoid (e.g. bone marrow) on a microfluidic system (chip) and then applied either for basic research (innate immunity) or as an alternative to animal models in drug testing (tumor research). Contribution in teaching is required.

### **Requirements:**

- Successfully completed scientific university degree (Master, Diploma or equivalent) in life sciences, e.g. biomedicine, biochemistry, medical biotechnology, biology
- Previous knowledge of cell culture of human primary cells
- The ability to teach in German and/or in English is required; willingness to acquire the respective missing language skills
- Advanced expertise in cell culture of human primary epithelial cells and immune cells
- Advanced expertise in cell culture and bioinformatics applications

### **Desirable:**

- Ability to work in a team, communication skills and high motivation to contribute own ideas is expected
- Previous experience in cell culture and bioinformatics applications
- Previous knowledge of infection biology, microbiome or organ-on-a-chip will be positively evaluated
- Experience in the other methods mentioned in the job description
- Experience in teaching

Please send your application with the **reference number** and the usual documents (single pdf file, max. 5 MB) **by email to Prof. Dr. Sina Bartfeld at sekretariat@medbt.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 guaranty 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/](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 III, Institut für Biotechnologie, FG Medizinische Biotechnologie, Prof. Dr. Sina Bartfeld , Sekr. TIB 4/4-2, Gustav-Meyer-Allee 25, 13355 Berlin

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

