



Technische Universität Berlin



Research Assistant - permanent position - 0.5 working-time - salary grade E13 TV-L Berliner Hochschulen

Faculty III - Process Sciences, Institute of Biotechnology

Reference number: III-358/25 (starting at the earliest possible / unlimited / closing date for applications 03/10/25)

Your responsibility:

The Institute of Biotechnology is looking for a new member of staff to develop alternatives to animal testing and establish methods without animal components. These are to be used for infection research. The RNA technologies (RNA interference) established in the working group will be used. To increase the physiological relevance of the models, animal components are to be replaced in the cell culture (fetal calf serum, gelatine, collagen). For this purpose, corresponding proteins and growth factors are to be recombinantly expressed. 3D bioprinting technology will be used to create organ models. The employee will be responsible for the maintenance of the bioprinters and the training of new employees in the relevant technology.

In addition, the employee is expected to assist in teaching, in particular in supervision activities in practical and theoretical basic biochemistry courses as well as in advanced master's internships. Furthermore, support of general administrative and organizational tasks of the department is expected.

The specific tasks therefore include:

- Physiological studies of organ models (cell viability assays, microscopy, immunohistochemistry, quantitative RT-PCR...).
- Infection experiments
- Use of RNA technologies
- Replacement of animal components in 3D cell culture and 3D bioprinting
- Development and supervision of practical experiments
- Administrative and organizational tasks of the department
- Supervision of student employees and project-related student theses
- teaching responsibility

Further information on the department can be found at: <https://www.tu.berlin/en/biotech>

Your profile:

- Successfully completed university degree (Master, Diplom or equivalent) and PhD in a suitable subject area (biotechnology, biology, biochemistry) is required.
- Very good knowledge of the cultivation of eukaryotic cells is required, including knowledge of alternative methods to animal experiments
- Experience with RNA technologies is required
- Experience in biochemistry teaching is required
- Knowledge of recombinant protein expression is desirable
- Knowledge of infection biology is desirable
- Knowledge of 3D cell culture (e.g. bioprinting) is desirable
- The ability to manage personnel is desirable
- After completing university studies, at least three years of scientific or technical-practical work in a full-time position.
- The ability to teach in German and/or in English is required; willingness to acquire the respective missing language skills.
- Independent, well-organized way of working is desirable

For inquiries about the job posting or our field in general, please contact peter.neubauer@tu-berlin.de

How to apply:

Please send your application with the usual documents (curriculum vitae, overview of grades/transcripts and letter of application, summarized in a PDF document, max. 5 MB) **by e-mail** to the dean of the faculty Prof. Dr. Peter Neubauer at peter.neubauer@tu-berlin.de, **quoting the reference number**.

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/.

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.

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

