

With over 48,000 students and around 5,000 employees, the Johann Wolfgang Goethe University Frankfurt am Main is one of the largest universities in Germany. Founded in 1914 by Frankfurt's citizens and since 2008 back in the legal form of a foundation, the Goethe University possesses a high degree of independence, modernity and professional diversity. As a comprehensive university, the Goethe University Frankfurt offers more than 100 courses of study on five campuses in a total of 16 subject areas and at the same time possesses outstanding research strength.

The **Institute of Biophysical Chemistry**, group of Volker Dötsch, Faculty of Biochemistry, Chemistry, Pharmacy at Goethe University offers a position, **starting 1<sup>st</sup> of January 2022**, within the cluster project "EnABLE" of a

**Postdoctoral Scientist (m/f/d)**  
**(E 13 TV-GU)**

**limited initially for 2 years.** The salary grade is based on the job characteristics of the collective agreements applicable to Goethe University (TV-GU).

Within the project EnABLE selected pathogenic mechanisms and signaling pathways of three connected areas – cellular homeostasis, infection and inflammation will be studied. These are highly interdependent processes essential for cell protection and defense against threats caused by immune responses, pathogens and diseases, such as cancer and neurodegeneration.

Chemical probes, biologics like nanobodies or designed ankyrin repeat proteins (DARPs) are essential tools for EnABLE. The systematic research into and exploitation of biologics is a relatively new development at Goethe University, and it is planned to establish a biologics platform. The successful candidate will provide support in production of both nanobodies and DARPs for the selective targeting of biological macromolecules, as well as several biophysical techniques for the characterization of macromolecular binding events including isothermal titration calorimetry, fluorescence anisotropy, surface plasmon resonance and nuclear magnetic resonance (NMR) spectroscopy. The candidate will work in close collaboration with the other groups of the cluster project.

To apply for this position you should hold a university degree (MSc or diploma) and a PhD in natural science discipline. Preference will be given to candidates with a proven experience in phage display and ribosome display techniques that are necessary for the in vitro selection of nanobodies and DARPs. The candidate should also be familiar with protein expression and purification techniques as well as biophysical methods for characterizing binding.

Goethe University is striving to increase the proportion of female researchers and encourages in particular women to apply for the position. People with disabilities will be given priority over other applicants with the same qualifications.

Applications should contain a motivation letter, CV, publication list, relevant certificates and contact of two referees in a single PDF file. Please send your application not later than **1<sup>st</sup> of December 2021** by email to Ms Sigrid Fachinger [s.fachinger@bpc.uni-frankfurt.de](mailto:s.fachinger@bpc.uni-frankfurt.de)