

The Johann Wolfgang Goethe University Frankfurt am Main is one of the largest universities in Germany with around 48,000 students and around 5,000 employees. Founded in 1914 by citizens of Frankfurt and since 2008 again in the legal form of a foundation, Goethe University has a high degree of independence, modernity and professional diversity. As a full university, the Goethe University Frankfurt offers over 100 courses on five campuses in a total of 16 departments and at the same time has an outstanding research strength.

The Cluster Project **ENABLE - Unraveling mechanisms driving cellular homeostasis, inflammation and infection to enable new approaches in translational medicine** is a newly established interdisciplinary research network which has been initiated jointly by the Goethe University Frankfurt, the Frankfurt Institute for Advanced Studies, the Fraunhofer Institute for Translational Medicine and Pharmacology, the Georg-Speyer-Haus and the Max Planck Institute of Biophysics. The network recently received funding from the State of Hesse and is looking to recruit

7 PhD students (m/f/d)
(E13 TV-G-U, 65 %-part-time)

as soon as possible. Positions are initially limited to three years. There is the possibility of subsequent employment. The salary grade is based on the job characteristics of the collective agreement applicable to Goethe University (TV-G-U).

The Cluster Project strives to unravel and understand selected pathogenic mechanisms and signaling pathways to identify disease-relevant critical targets for therapeutic intervention. The projects within the Cluster will **focus on the areas of cellular homeostasis, infection and inflammation** and cover the complete range from molecular mechanisms to translational clinical science and economic analysis. ENABLE is well embedded in the excellent research infrastructure at the participating universities and research institutions; all participating sites offer access to state-of-the-art technologies, well-equipped laboratories, a vibrant scientific exchange and an internationally competitive scientific training program. Details on the available projects can be obtained from the ENABLE homepage (www.enable-frankfurt.de) and the respective group leaders.

Candidates should have a first-class academic degree in a Life Science-related discipline, informatics, computer science, mathematics or similar areas and a strong background in biochemistry, chemical biology, cell biology, molecular biology, pharmacology, bioinformatics and systems biology (bioinformatics knowledge and programming skills are required) or biostatistics, mathematic modeling or similar.

Candidates are highly motivated and enthusiastic to join the fast-moving and internationally highly competitive field and are characterized by good collaborative skills. Very good written and spoken English is expected. As part of ENABLE, we offer tailored interdisciplinary training to all researchers in the network, a framework of common scientific activities and a strong mentorship for future career development. PhD students will be affiliated with graduate schools of the respective university and research institutions to ensure a well-structured, first-class education.

The University advocates equality between women and men and therefore urges women to apply. People with disabilities with the same qualifications are given priority.

Applicants should choose their field of interest from the projects listed below and send their application **within four weeks after the publication of this advertisement** in a single pdf-file including cover letter, CV, scanned academic degrees, list of publications and two references with contact details to the responsible group leader.

Please do not send any original documents as the application documents will not be returned. Travel and application costs cannot be reimbursed.

PhD projects:

Cellular homeostasis (structural biology, systems biology, imaging)

Dr. Martin Beck, Department of Molecular Sociology, Max Planck Institute of Biophysics, martin.beck@biophys.mpg.de

Cellular homeostasis (biochemistry, cell biology)

Dr. Anja Bremm, Institute of Biochemistry II, Goethe University Frankfurt, bremm@em.uni-frankfurt.de

Cellular homeostasis (biochemistry, cell biology, molecular biology)

Prof. Stefan Müller, Institute of Biochemistry II, Goethe University Frankfurt, ste.mueller@em.uni-frankfurt.de

Infection (pharmacy, cell biology)

Prof. Dr. Maike Windbergs, Institute of Pharmaceutical Technology and Buchmann Institute for Molecular Life Sciences, Goethe University Frankfurt, windbergs@em.uni-frankfurt.de

Tissue homeostasis & Inflammation (developmental biology, cell biology)

Prof. Dr. Virginie Lecaudey, Institute for Cell Biology and Neuroscience, Goethe University Frankfurt, lecaudey@bio.uni-frankfurt.de

Across all areas: cellular homeostasis, infection & inflammation (bioinformatics, computational systems biology)

Prof. Dr. Ina Koch, Molecular Bioinformatics, Institute for Computer Science, Goethe University Frankfurt, ina.koch@bioinformatik.uni-frankfurt.de

Across all areas: cellular homeostasis, host-pathogen interactions, infection & inflammation (mathematical modeling, bioinformatics, computational systems biology)

Dr. Maria Vittoria Barbarossa, Frankfurt Institute for Advanced Studies, barbarossa@fias.uni-frankfurt.de