

PhD position (m/f/d) in biological physics & systems biology

Institute for Biological Physics

The University of Cologne is one of the largest and most research-intensive universities in Germany, offering a wide range of subjects. With its six faculties and its interfaculty centres, it offers a broad spectrum of scientific disciplines and internationally outstanding profile areas, supported by the administration with its services.

In the framework of the DFG-funded project „Predicting the effects of ribosome-targeting antibiotic combinations“, the Bollenbach group at the Institute for Biological Physics is investigating the underlying cellular and molecular mechanisms of drug interactions between antibiotics in bacteria. The group combines molecular biology with concepts from physics.

YOUR TASKS

- » Apply and improve high-throughput techniques for measuring bacterial growth in the presence of antibiotics
- » Genetically manipulate bacteria to mimic antibiotic effects and quantify key parameters of cell physiology
- » Analyze experimental data using computers
- » Develop theoretical models of bacterial growth and cell physiology in collaboration with theorists in the group

YOUR PROFILE

- » MSc degree in microbiology, molecular biology, biological physics, or a related field
- » Strong interest in interdisciplinary research bridging physics and biology
- » Prior experience with programming, statistical techniques, or molecular biology would be advantageous, but is not essential
- » Good communication skills are essential
- » Applicants should be highly motivated and independent

WE OFFER YOU

- » an interactive and supportive research environment
- » a diverse and fair working environment
- » support in reconciling work and family life
- » flexible working time models
- » extensive advanced training opportunities
- » occupational health management offers
- » local transport ticket at a discount for UoC employees

The position is available from 1. January 2020 on a part-time basis (65%). It is limited to 31. December 2021. If the applicant meets the relevant wage requirements and personal qualifications, the salary is based on remuneration group 13 TV-L of the pay scale for the German public sector.

The University of Cologne promotes equal opportunities and diversity in its employment relations. Women are expressly encouraged to apply and given priority in accordance with the Equal Opportunities Act of North Rhine-Westphalia (Landesgleichstellungsgesetz – LGG NRW). We expressly welcome applications from individuals with severe disabilities or people of equivalent status. Severely disabled applicants of equal merit and qualifications will be given priority.

Please apply online at: <https://jobportal.uni-koeln.de> with proof of the sought qualifications and provide in your CV at least two recommendators that can be contacted. The reference number is Wiss1909-06. For further questions please contact Professor Bollenbach t.bollenbach@uni-koeln.de.

The application deadline is 1 November 2019.