

## Doctoral Student Position in Experimental Biophysics at LMU

At the Sabass lab at LMU, we study the physics of living systems by combining advanced microscopy, computer simulations, and theory. Our aim is to understand fundamental physical principles governing cellular life, such as a tradeoff between control and emergence, optimization of performance, or robustness.

Your task will be to develop a new microscopy technique together with us to measure mechanical forces in nano-scale biological processes. The method will be applied to study bacterial infection. Through this project, you will become familiar with super-resolution imaging, the biology of pathogen-host interactions, and the development of analysis- and simulation programs. Additionally, the laboratory will offer you the opportunity to gain experience with techniques from microbiology, including cell culture and bacterial genetics.

You will be part of a young and highly motivated team of physicists and biologists belonging to different faculties of LMU. Your PhD thesis is in physics/biophysics. We are committed to excellence, fairness, and hands-on education of students.

The University of Munich is an equal opportunity employer. Handicapped applicants will be given preference in the case of approximately equal qualifications. The university is interested in increasing the number of female faculty members and encourages women to apply. Salary and benefits depend on experience and seniority of the applicant; TV-L E13 (50%-100%).

### Requirements

- First Degree in Biophysics, Biochemistry, Physics, or comparable
- High motivation and commitment to achieving scientific excellence
- Some laboratory-work experience
- Excellent command of the English language

### Application

The application documents should contain a motivation letter, references, CV, copies of your certificates, and your Master's or Bachelor's thesis. Further information can be found at <https://www.biostatphys.vetmed.uni-muenchen.de>

Please send your application documents via email to: [b.sabass@lmu.de](mailto:b.sabass@lmu.de)

The deadline for application is on Friday, July 16 2021. Early applications are preferred.

