

We are announcing a 65% part-time position as

PhD student (m/f/d)

in the Division of Biophysics

The position is offered for 3 years.

The Research Center Borstel (FZB) is an internationally operating Lung Center within the Leibniz Association, financed by the Federal Government and the State of Schleswig-Holstein. Our central task is basic and translational research in the field of respiratory diseases. We operate extensive laboratory and research infrastructures. Academically, we are closely linked with neighboring universities (Lübeck, Kiel) and clinically with the University Hospital Schleswig-Holstein. Our goal is to improve existing methods for the detection, prevention and treatment of lung diseases and to develop new, innovative therapeutic approaches.

JOB DESCRIPTION

- Work on the project "Liposome-based microfluidic platform for standardized analysis of antibacterial compounds", funded by the Phospholipid Research Center Heidelberg
- Completion of a doctoral thesis, presentation of the results at conferences, starting national and international collaborations
- Characterization of the membrane interaction of antimicrobial peptides in microfluidic systems and with additional biophysical methods
- Development of a microfluidic platform for fluorescence-assisted characterization of large lipid vesicles
- Development of microfluidic-assisted production of large lipid vesicles
- Use of professional software for the development of microfluidic systems (COMSOL, AutoCAD) and for data analysis

YOUR QUALIFICATION

- Completed university master degree in biophysics, biochemistry or related field
- Interest in interdisciplinary work
- Commitment to contribute to the team of the biophysics research group
- Independent project management
- Experience in membrane biophysics or microfluidics is desirable

OUR OFFER

- A self-responsible workspace within a motivated team
- The possibility to use state-of-the-art methods at the "Center for Structural Systems Biology" and at DESY in Hamburg.
- A structured and certified PhD training program "Borstel Biomedical Research School"
- Your new workplace is located in a top class research center close to Hamburg
- Payment according to TVöD-VKA incl. all benefits usually offered in the public sector
- Family-friendly working conditions and flexible working hours
- Childcare centre and workplace health promotion

The FZB is certified for the "berufundfamilie" audit and specifically promotes the compatibility of career and family. The under-represented gender is given special consideration while maintaining the same professional and personal aptitude. Severely handicapped persons with otherwise equal aptitude are also given preferential consideration. For more information about our certifications, please visit our homepage.

If you have any questions, please do not hesitate to contact Dr. Christian Nehls on cnehls@fz-borstel.de. Please send your application with the usual documents (without photo) **up to 13.11.2022** to our website www.fz-borstel.de.



For us, your age, gender and sexual identity, your world view, your ethnicity or a handicap are not important. We are solely interested in your knowledge and skills and your ability to work in a team. If attractive work content and a solution-oriented approach are more important to you than formalities, you are in the right place!