

Exzellenzcluster Multiscale Bioimaging (MBExC)

The Cluster of Excellence „MULTISCALE BIOIMAGING: From Molecular Machines to Networks of Excitable Cells (MBExC)” invites applications for a

Postdoc (m/f/d) position

in biochemistry and biophysics of membrane fusion

initially available for 2 years, full-time | Entgelt nach TV-L

The successful candidate will work on the role of multi-C2-domain proteins in Ca^{2+} triggered membrane fusion using a broad array of techniques to study the structure and function of recombinant and reconstituted proteins as part of a collaborative effort with the MBExC. The work involves cloning, protein purification, in vitro assays of membrane fusion, cryo-electron microscopy and tomography, as well as x-ray crystallography.

We are looking for excellent and highly motivated applicants with a strong background in protein biochemistry and biophysics. The ability to work in an interdisciplinary (combining molecular, structural, physiological, and theoretical approaches) and international team of researchers is required. The position is available for 2 years with the option for prolongation.

The Cluster of Excellence "Multiscale Bioimaging: from Molecular Machines for networks of excitable cells" (MBExC) is a research center of the Georg-August-University Göttingen / University Medical Center Göttingen and pursues a novel research approach linking photonics, molecular biosciences, neuroscience, and cardiovascular research.

The goal of the MBExC is to decipher disease-relevant nanoscale functional units in cardiac and neural excitable cells and to develop innovative therapeutic strategies for disorders affecting the heart, the brain, or both. By a multiscale approach the MBExC will uncover fundamental biological principles at increasing levels of complexity from molecular, nanoscale to network and organ levels.

The MBExC relies on a close interdisciplinary collaboration between the University Medical Center Göttingen the faculties of Chemistry, Physics, Mathematics, and Biology of the University and the non-university research institutions in Göttingen, such as the German Centre for Cardiovascular Research e.V. (DZHK), the German Center for Neurodegenerative Diseases e.V. (DZNE), and the Max Planck Institutes for

Biophysical Chemistry, for Experimental Medicine, and for Dynamics and Self-Organization.

Applications should include a **cover letter, CV, list of publication, relevant certificates** and the **contact details of possible referees**.

We look forward to receiving your application by **March 6th, 2020**:

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Please send your application only via e-mail as a PDF-file.

Travel and application fees cannot be refunded or transferred.

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