

At the **Biotechnology Centre**, an Institute of the **Center for Molecular and Cellular Bioengineering (CMCB)**, the **Chair of Biophysics** (Prof. Dr. Stephan Grill) is offering a position for a

Research Associate / PostDoc in Biochemistry

(Subject to personal qualification employees are remunerated according to salary group E-13 TV-L)

as of **1st May 2019**. The position is limited for 2 years with the possibility of extension. The period of employment is governed by Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz-WissZeitVG). The position offers the chance to obtain further academic qualification.

The Chair of Biophysics is interested in understanding the biophysical basis of morphogenesis. We combine theory and experiment, and investigate force generation on multiple scales (for more information see <http://www.biotec.tu-dresden.de/research/grill.html>).

Tasks: She/he will work as an experienced Postdoc in Biochemistry on a challenging project involving the *in vitro* reconstitution of the actomyosin cortex on realistic membranes, using light-controllable myosin motors, with the goal of understanding how active tension and torque are generated at the molecular level. The project is part of two recently funded Grants: a DFG TRR83 Grant "Molecular Architecture and Cellular Functions of Lipids/Protein Assemblies" (<https://www.trr83.uni-heidelberg.de/>), and an ERC Advanced Grant "Chiral Morphogenesis - Physical Mechanisms of Actomyosin-Based Left/Right Symmetry Breaking in Biological Systems".

Requirements: We are seeking a highly motivated scientist to join the Chair of Biophysics and expect the following: university degree and Ph.D. in Biology / Biochemistry / Biophysics or related subject; strong background in protein biochemistry, cell-free reconstitution systems, and biophysical approaches; experience in protein engineering, protein purification and analysis; experience with assay development, microscopy techniques and image analysis; familiar with actomyosin reconstitution and/or lipid biochemistry. The successful candidate is able to work independently and reliably, acquire new skills efficiently, is very well organized and enjoys working in an international team within a collaborative atmosphere. Most important is an interdisciplinary interest and the ability to tackle a biological problem with a combination of techniques. A general strong interest in quantitative approaches towards biological problems is essential. Good communication and interpersonal skills as well as a solid knowledge of English and high motivation are required.

Applications from women are particularly welcome. The same applies to people with disabilities. Please submit your application documents in English, including a letter of motivation, Curriculum Vitae, list of publications, names of 2 referees, a brief summary of your thesis/postdoc work and copy of degree certificates until **09.04.2019** (stamped arrival date applies) to: **TU Dresden, BIOTEC, Professur für Biophysik, Dr. Mara Catani, Tatzberg 47/49, 01307 Dresden, Germany** or via the TU Dresden SecureMail Portal <https://securemail.tu-dresden.de> by sending it as a single pdf document to **mara.catani@mailbox.tu-dresden.de**. Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

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