For the Cluster of Excellence “Physics of Life”, the Center for Molecular and Cellular Bioengineering (CMCB) at TU Dresden seeks to fill the Chair (W3) of Spatiotemporal Organization of Subcellular Structures as soon as possible.

The central aim of the Cluster of Excellence “Physics of Life” (DFG EXC 2068) is to identify the physical principles that govern the organization of living matter (https://physics-of-life.tu-dresden.de/en). The Cluster of Excellence PoL is embedded in a synergistic and interdisciplinary network, comprising multiple DRESDEN-concept research institutes besides TU Dresden, including the Leibniz-Institut für Polymerforschung Dresden e.V., the Helmholtz-Zentrum Dresden-Rossendorf e.V., the Max Planck Institute for the Physics of Complex Systems, and the Max Planck Institute of Molecular Cell Biology and Genetics.

The research concept of the chair should integrate itself into the interdisciplinary approach of the cluster and represent a meaningful addition to the research activities in the Dresden area. The successful candidate will be part of a core team of newly appointed full professors that will build and breathe life into PoL. The chair will benefit from generous core funding and support structures (e.g. through various state-of-the-art core facilities, both at Physics of Life and surrounding institutes). The successful candidate is expected to pursue an experimental research program focused on studying the fundamental physical principles underlying the spatiotemporal organization of subcellular structures, and is expected to aim to unravel physical mechanisms of self-assembly and self-organization inside the cell. Research activities should lie at the interface between physics and biology and can comprise understanding the formation of functional mesoscale structures in the cell, investigating the role of physical forces, mechanics, and mechnanochemical feedback, and quantifying physical properties of subcellular structures. This may include, but is not limited to, the study of cytoskeletal structures for cell function (the actomyosin cell cortex, the mitotic spindle, transport networks, etc.), the physics of the cell nucleus (nuclear organization, mechanics, dynamics of gene expression, etc.), and the role of phase transitions and liquid-liquid phase separation for cell function. Candidates whose research activities include the development of new experimental techniques for imaging dynamic subcellular structures, and measuring and manipulating physical properties of the subcellular milieu are particularly fitting. The candidate is expected to be committed to interdisciplinary collaborations, by working closely with other “Physics of Life” research groups as well as other groups in the broader Dresden scientific community.

The successful candidate should already have established an independent and internationally recognized research program as an independent group leader. An excellent publication record, teaching experience, and proven ability to attract third party funding are required. A willingness and ability to teach in English is necessary. Participation in academic self-administration is required. Applicants must fulfil the employment qualification requirements of § 58 of the Act on the Autonomy of Institutions of Higher Education in the Free State of Saxony (SächsHSFG).

For further scientific questions, please contact Prof. Dr. rer. nat. Stephan Grill, phone: + 49 351 210-2590, E-Mail: recruiting.pol@tu-dresden.de.

TU Dresden seeks to employ more female professors. Hence, we particularly encourage qualified women to apply. Applications from candidates with disabilities or those with additional support needs are very welcome. The University is a certified family-friendly university and offers a Dual Career Program.
Service. If you have any questions about these topics, please contact the Equal Opportunities Officer of the CMCB (Mr. Martin Kaßner, +49 351 458-82083) or the Representative of Employees with Disabilities (Mr. Roberto Lemmrich, Tel.: +49 351 463-33175).

Please submit your application including the following documents: (i) a cover letter explaining your motivation to apply for this position, (ii) a description of past discoveries and future research interests (7 pages maximum), (iii) a CV with a full publication list highlighting the 10 most important publications, (iv) a list of past and present third party funding, (v) an overview of your teaching experience, including teaching evaluations of the past three years, and (vi) a certified copy of your highest academic degree certificate. All documents should be sent to TU Dresden, Sprecher des Exzellenzclusters „Physik des Lebens“, Herrn Prof. Dr. rer. nat. Stephan Grill, Arnoldstraße 18, 01307 Dresden until January 14, 2022 (stamped arrival date applies) and in one PDF via the TU Dresden SecureMail Portal https://securemail.tu-dresden.de to recruiting.pol@tu-dresden.de (subject line “Organization of Subcellular Structures”). Your application documents will not be returned to you.

Reference to data protection: Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: https://tu-dresden.de/karriere/datenschutzhinweis