TUD Dresden University of Technology, as a University of Excellence, is one of the leading and most dynamic research institutions in the country. Founded in 1828, today it is a globally oriented, regionally anchored top university as it focuses on the grand challenges of the 21st century. It develops innovative solutions for the world's most pressing issues. In research and academic programs, the university unites the natural and engineering sciences with the humanities, social sciences and medicine. This wide range of disciplines is a special feature, facilitating interdisciplinarity and transfer of science to society. As a modern employer, it offers attractive working conditions to all employees in teaching, research, technology and administration. The goal is to promote and develop their individual abilities while empowering everyone to reach their full potential. TUD embodies a university culture that is characterized by cosmopolitanism, mutual appreciation, thriving innovation and active participation. For TUD diversity is an essential feature and a quality criterion of an excellent university. Accordingly, we welcome all applicants who would like to commit themselves, their achievements and productivity to the success of the whole institution.

The **Chair of Spatiotemporal Organization of Subcellular Structures** (Brugués Lab) at the **Cluster of Excellence "Physics of Life" (PoL)** offers a position as

Research Associate / Postdoc (m/f/x)
in Biophysics of nuclear formation and chromatin dynamics
(subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

starting **as soon as possible.** The position is funded by an ERC consolidator grant and is initially limited to 2 years, with the option to become extended. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz – WissZeitVG). The position aims at obtaining further academic qualification.

We are an interdisciplinary Brugués Lab that combines concepts and tools across cell biology, biochemistry, and physics to discover the biophysical principles behind the self-organization of large functional assemblies in cells. A particular focus of our research regards how active forces shape biological structures such as mitotic spindles, microtubule asters, and chromatin (https://physics-of-life.tu-dresden.de/en/research/core-groups/brugues). Our Brugués Lab, hosted at the Max Planck Institute for Cell Biology and Genetics is part of the Cluster of Excellence PoL (https://physics-of-life.tu-dresden.de/en), which is a new interdisciplinary research center dedicated to Biological Physics and Quantitative Biology in the outstanding Dresden environment.

Tasks: We seek independent, passionate, and motivated applicants for a Postdoc position to develop and improve measurement techniques to quantify physical and dynamical properties of chromatin in the nucleus. We aim to extend previous measurements from our Brugués Lab to larger scales (https://www.nature.com/articles/s41567-021-01285-1, https://elifesciences.org/articles/53885), and develop novel assays to investigate the physics of chromatin organization in Xenopus egg extracts and in living embryos. The successful applicant will work in a highly interdisciplinary group of researchers, including physicists, biologists and theorists, and will be embedded in a collaboration between groups in Dresden, the Flatiron Institute in New York, and Harvard.

Requirements: a university and a PhD degree in Physics, Bioengineering or related fields, as well as a keen interest in biological systems and curious-driven projects are required. Previous experience in biophysics or chromatin biology will be considered positively.

TUD strives to employ more women in academia and research. We therefore expressly encourage women to apply. The University is a certified family-friendly university and offers a Dual Career Service. We welcome applications from candidates with disabilities. If multiple candidates prove to be equally qualified, those with disabilities or with equivalent status pursuant to the German Social Code IX (SGB IX) will receive priority for employment.

Please submit your detailed application including a cover letter explaining your motivation to apply for this position, your CV and reference letters (at least 2) by **May 6, 2024** (stamped arrival date or the time stamp on the email server of TUD applies), preferably via the TUD SecureMail Portal https://securemail.tu-dresden.de by sending it as a single pdf file with the **subject line "Brugués Lab Biophysics of chromatin position"** to **jan.brugues@tu-dresden.de** or to: **TU Dresden, Exzellenzcluster "Physik des Lebens", Professur für Dynamik von Geweben, Herrn Prof. Dr. Jan Brugués, Arnoldstr. 18, 01307 Dresden, Germany.** Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

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.