

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.

At the **Cluster of Excellence "Physics of Life" (PoL)** the **Chair of Spatiotemporal Organization of Subcellular Structures (Brugués Lab)** offers, subject to the availability of resources, a position as

**Research Associate / Postdoc (m/f/x)
in Computer Science**

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

starting **October 1, 2024**. The position is initially limited until September 30, 2026 with the option of extension. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz – WissZeitVG). The position offers the chance to obtain further academic qualification.

We are an interdisciplinary 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 theory and computer simulations to understand physical and dynamical properties of cellular structures in cells. The successful applicant will have a leading role in most of the activities in this area, as well as work in a collaborative manner with a highly interdisciplinary group of researchers, including physicists, biologists and theorists. You are expected to be involved in collaborations within PoL and the Max Planck Institute for Cell Biology and Genetics, as well as with other neighboring institutes and international institutions.

Requirements: a university and a PhD degree in Physics or Computer Science or related fields. Previous experience in large-scale simulations, non-equilibrium statistical mechanics, kinetic monte carlo, and physically interpretable machine learning for biological systems 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 and your CV, by **June 28, 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 Computer Scientist 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 arrange also at least two reference letters to be sent directly to jan.brugues@tu-dresden.de 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>.