Technische Universität Dresden (TUD), 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 Cluster of Excellence “Physics of Life” offers a position starting January 1, 2023 as

**Research Associate/ PhD student (m/f/x)**

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

which entails 65 % of the fulltime weekly hours, until December 31, 2025 with the option of extension, funded by University of Excellence. 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 (e.g. PhD).

The Cluster of Excellence PoL ([https://physics-of-life.tu-dresden.de/en](https://physics-of-life.tu-dresden.de/en)) is an interdisciplinary research center for biology, biophysics and computer science, which is funded by the German Research Foundation (DFG) and offers a wide range of support structures. You will be part of the DRESDEN-concept Junior Research Group Physical Chemistry of Biomolecular Condensates of Dr. Ellen Adams, a joint group between PoL and the Helmholtz Zentrum Dresden Rossendorf (HZDR), and work in a highly interdisciplinary environment. The mission of the group is to study structural and dynamical solvent properties in aqueous protein solutions with state of the art spectroscopic techniques. We seek independent, passionate, and motivated applicants to lead a project applying THz spectroscopy to study solvent dynamics in biomolecular condensates.

**Tasks:**

scientific research activities with the following research topics: mainly experimental study of solvent dynamics in biomolecular condensates in relation to co-solutes and protein aggregation. The underlying goal is to generate a better understanding of emergent properties of biomolecular condensates as well as the molecular structure and dynamics of condensates during aging. Methods include Terahertz spectroscopy and confocal fluorescence microscopy. Furthermore: analysis of experimental data with custom-made computer programs, writing of scientific manuscripts for publication in the relevant periodicals; conducting detailed literature searches; writing regular interim reports; participation in professional conferences and presentation of the research work of the laboratory and its projects; support of the institute for applications for third-party funding.

**Requirements:**

university degree (Diplom / Master) in physics, chemistry, biochemistry, or biophysics. Good command of spoken and written English; communication skills; high motivation and teamwork. 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 send your detailed application documents by **November 15, 2022** (stamped arrival date applies) to: **TU Dresden, Excellenzcluster “Physik des Lebens”, Nachwuchsforschungsgruppe Physikalische Chemie Biomolekularer Kondensate, Frau Dr. Ellen Adams, Arnoldstr. 18, 01307 Dresden, Germany** or via the SecureMail portal of the TU Dresden [https://securemail.tu-dresden.de](https://securemail.tu-dresden.de) as a PDF document to **kerstin.pelz@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](https://tu-dresden.de/karriere/datenschutzhinweis).