

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 **Cluster of Excellence "Physics of Life" (PoL)** offers a position in the **Junior Research Group Physical Chemistry of Biomolecular Condensates** as

**Research Associate / Postdoc in THz Spectroscopy (m/f/x)**

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

starting **as soon as possible**. The position is initially limited until November 30, 2026. 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.

The Cluster of Excellence PoL (<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 Research Group Physical Chemistry of Biomolecular Condensates, 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:** You will spearhead the development and application of THz spectroscopy for probing solvent dynamics in aqueous protein solutions. You will be responsible for data collection and data analysis, as well as interpretation of data. You will write scientific reports and will participate in writing project proposals for the application of beamtime experiments.

**Requirements:** university and PhD degree in Chemistry, Biochemistry, or Physics (or related fields) is required. Previous experience with ultrafast lasers, spectroscopy techniques, and nonlinear optics are desired. A background in aqueous solutions, soft matter, or biological systems is a plus but not necessary. Experience in programming languages such as LabView, Python, Matlab, or Wolfram will be considered positively.

For any questions regarding the position, please feel free to contact Dr. Ellen Adams ([ellen\\_marie.adams@tu-dresden.de](mailto:ellen_marie.adams@tu-dresden.de)).

**What we offer:** We offer an interdisciplinary and international research environment of high standing and visibility with challenging projects on diverse research topics. You will be part of a collaborative community at PoL, the Dresden campus, and HZDR. We provide the opportunity to learn project management skills, team leader skills, and teaching skills. Employment conditions include a comprehensive package with full social benefits, and remuneration according to the State Tariff for Civil Servants (TV-L).

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 comprehensive application, including a cover letter explaining your motivation to apply for this position, a summary of your past research achievements, a CV including a list of your publications, and a copy of the certificate of your highest academic degree by **January 3, 2025** (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 'Research Associate in THz Spectroscopy'** to [kerstin.pelz@tu-dresden.de](mailto:kerstin.pelz@tu-dresden.de) or to: **TU Dresden, PoL, Nachwuchsforschungsgruppe Physikalische Chemie Biomolekularer Kondensate, Frau Dr. Ellen Adams, 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.



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**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>.