

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 project position as

Research Associate / Image Analysis Specialist (m/f/x)

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

starting **January 1, 2026**. The position is limited until December 31, 2032. The period of employment is governed by § 2 (2) Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). Balancing family and career is an important issue. The position is generally suitable for candidates seeking part-time employment. Please indicate the request in your application.

The PoL Cluster of Excellence (<https://physics-of-life.tu-dresden.de/en>), a central scientific institution, is an interdisciplinary research center for biology, biological physics, and computer science currently under development and has been funded by the German Research Foundation (DFG) since January 2019.

You will be part of the microscopy and image analysis facility team at PoL and work in a highly interdisciplinary environment. This position offers the opportunity to work both independently and collaboratively in a highly dynamic and interactive research environment. Your role will be to help researchers at PoL with modern bio-image data analysis, big-image-data management and image-data-mining solutions. The specialist will also work with research groups to develop new image analysis tools and Artificial Intelligence methodologies to enhance image analysis.

Tasks:

- scientific research activities
- train users on and provide support with existing image analysis methodologies
- set up and maintain computing infrastructure dedicated to data storage and analysis
- scientific develop custom-made image analysis pipelines in collaboration with research groups
- help develop, deploy, and operate infrastructure for storing, analyzing, and visualizing research data

You will work in close collaboration with the IT services of the Center for Molecular and Cellular Bio-engineering (CMCB), the Center for Information Services and High-Performance Computing of the TU Dresden (ZiH), the Center for Scalable Data Analytics and Artificial Intelligence (ScaDS.AI) Dresden/Leipzig, the Center for Systems Biology Dresden (CSBD), international collaborators, and PoL members.

We invite applications from open-minded candidates who value knowledge sharing and building bridges between disciplines. We encourage scientists to apply who do not yet have deep expert knowledge in biomedical image data science yet but strive to acquire that knowledge and skills.

Requirements:

- university degree (M.Sc., Diplom, or Ph.D. in computer science, mathematics, physics, engineering, or natural science)
- experience in programming languages such as ImageJ Macro, Python, Matlab, R, C++, Java, bash and willingness to strengthen programming skills
- experience in image/data science projects and/or software such as ImageJ, Fiji, Imaaris, QuPath, CellProfiler, Cytomine, Icy, DeepLabCut, ilastik, scikit-image, scikit-learn, Tensorflow, Keras, PyTorch, Galaxy, SnakeMake, Omero, MicroManager, MorphoGraphX, napari or SR-Tessler
- excellent english communication skills
- experience in open-source software development, skills in microscopy and/or experience in biophysics, wet-lab biology, computational biology, or systems biology is a plus

What we offer: A challenging and varied role in a dynamic, international environment and an innovative team; opportunities for further education and training; flexible working time models that allow you to balance family, career, and caregiving; participation in the additional pension scheme for public service employees through the VBL; and the option to purchase a job ticket.

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. 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 with the usual documents by **September 19, 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 **Job-ID w25-235** and a maximum size of 4 MB to recruiting.pol@tu-dresden.de or to: **TU Dresden, Cluster of Excellence "Physics of Life", Prof. Dr. Otger Campàs, Arnoldstraße 18, 01307 Dresden**. 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>.