The Cluster of Excellence “Physics of Life” (PoL) offers a project position in the Core Facility Tailored Smart Microscopy as

**Research Associate / Light Microscopy Imaging Specialist (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 December 31, 2025. The period of employment is governed by § 2 (2) Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz – WissZeitVG).

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 associated with the Imaging Core Facility Tailored Smart Microscopy. Including you, we will be a team of four, enabling and supporting both in vivo and in vitro imaging projects within PoL. At the same time our mission is to set up and sustain a pool of high-end imaging and photomanipulation equipment that enables research groups to take advantage of mainly live fluorescence imaging methods at the forefront of the current state of the art. As we understand data handling, processing and analysis as integral part of the imaging workflow we closely collaborate with our colleagues from the Core Facility Bio-image Analysis at PoL. We see information exchange and communication as key to provide best service and to constantly develop further.

**Tasks:** As an imaging scientist you will mainly support imaging projects of other scientists and use your expertise to drive method and application development forward. In particular, you will make sure that the appropriate tools are used to answer a scientific question. This involves identifying and testing suitable imaging techniques in collaboration with the project owner, providing training at the instrument to enable independent use of equipment as well as supporting the user throughout the project, e.g. by helping to optimize imaging conditions and to develop workflows as needed. Initially, you will be focusing on live imaging techniques (e.g. light sheet microscopy, spinning disk microscopy) including photomanipulation techniques. The portfolio of imaging modalities may be expanded/altered according to the needs of PoL research groups. Further duties comprise the characterization, optimization and maintenance of imaging equipment as well as assistance in future purchasing processes. These tasks will include communication and collaboration with experts from other scientific institutions, but also with application specialists, service engineers and sales persons of vendors. Additionally, you will also support training and teaching activities, and representation of the group at conferences and to the public.

**Requirements:**

- university and PhD degree (or equivalent) in biophysics, physics, biology or related scientific or technical area; or alternatively university degree (MSc or Diploma) plus three years of work experience in any of the mentioned fields;
- excellent comprehension and extensive experience in the usage of high-end optical microscopes (e.g. light sheet, spinning disk confocal, laser scanning confocal microscopes) and possibly photomanipulation applications;
- at least basic knowledge in image processing (e.g. using ImageJ/Fiji, Napari, Python);
- strong analytical and quantitative reasoning;
- affinity towards practically relevant challenges and solution finding;
- experience in sample preparation of living samples (e.g. zebrafish, organoids) will be advantageous;
- very good communication skills and command of the English language (written and spoken);
- ability and motivation to collaborate in interdisciplinary teams;
• strong motivation to work with instrument users in a service-oriented manner.

Do you have passion for and experience with high-end light microscopy? Are you looking for an alternative to the classic academic career path, yet want to stay involved in research? Then this is for you!

**What we offer:** We offer an interdisciplinary and international research environment of high standing and visibility with challenging mid-term projects on diverse research topics. You will be part of the PoL community, the Dresden Campus, and our extensive international network. We offer exciting and challenging projects using high-end imaging technology combined with the possibility to develop your professional career. We provide the opportunity to acquire 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). The University is a certified family-friendly university.

We invite applications from open-minded candidates who value knowledge sharing and building bridges between disciplines. Applications from women are particularly welcome. The same applies to people with disabilities.

Please submit your comprehensive application by regular mail by **April 20, 2022** (stamped arrival date applies), preferably via the TU Dresden SecureMail Portal [https://securemail.tu-dresden.de](https://securemail.tu-dresden.de) by sending it as a single pdf document to bert.nitzsche@tu-dresden.de (subject line 'Light Microscopy Imaging Specialist') or to: TU Dresden, Exzellenzcluster Physik des Lebens, z. Hd. Herrn Dr. Bert Nitzsche, Arnoldstraße 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.

**Hinweis zum Datenschutz:** Welche Rechte Sie haben und zu welchem Zweck Ihre Daten verarbeitet werden sowie weitere Informationen zum Datenschutz haben wir auf der Webseite [https://tu-dresden.de/karriere/datenschutzhinweis](https://tu-dresden.de/karriere/datenschutzhinweis) für Sie zur Verfügung gestellt.