

The **Light Microscopy Facility**, part of the **Joint Technology Platform** at the **Center for Molecular and Cellular Bioengineering (CMCB)**, offers a position for an outstanding applicant with scientific qualification as

**Research Associate/ Light Microscopy Specialist**

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

starting **as soon as possible**. The position is limited for three years. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The Technology Platform of the CMCB is jointly run by three Institutes of the TU Dresden, B CUBE, BIOTEC und CRTD and offers services as well as state-of-the-art technologies and equipment. Further information is available here: <https://tu-dresden.de/cmcb>.

The Light Microscopy Facility serves more than 250 researchers per year and offers more than 22 state-of-the-art light microscopy instruments. The available equipment ranges from latest multi-photon confocal systems to basic fluorescent video microscopes. The Facility provides user training and full technical support for all the instruments along with advice on microscope selection and the design of imaging experiments as well as data processing.

The Light Microscopy Facility comprises an interdisciplinary team with many years of experience in the field. The team is fully dedicated to enable the research of facility users and constantly improve the service as well as the instrumentation. The Facility closely collaborates with other Facilities locally and within Germany. More information can be found here: <http://www.biodip.de> and <http://biotop.tu-dresden.de/biotechnology-platform/>

Within the framework of a new funding, a state-of-the-art LMF Microscopy system, used for confocal microscopy, multi-photon microscopy and Fast Fluorescence Lifetime Measurements (FLIM) is provided. The aim of this project is to establish, evaluate and further develop the additional methods the new system allows and make them available on Campus.

**Tasks:** The main goal of this position is to help expanding the existing LMF portfolio by developing and establishing new confocal methods and Fast Fluorescence Lifetime Measurements (FLIM). This comprises the whole workflow starting with the conception and execution of the experiments, data processing and eventually evaluation of the results. Especially methods for evaluating key parameters of the new microscope system and comparative studies on other Lifetime measurement Systems should be established. An additional focus is the assessment and, if necessary, improvement of data analysis workflows. Furthermore the position includes scientific support of all LMF users with special emphasis on training in advanced imaging technologies like FCS, FRET, FLIM and 2-photon Microscopy and complex data analysis. The adjustment, repair and maintenance of the existing high performance microscope systems will be performed together with the manufacturers. Further development of the microscopes is carried out in collaboration with national and international work groups and networks as well as companies. The applicant will be involved in the facility teaching activities (master students) and the presentation of the facility to the public. Moreover, the applicant participates in conferences and in writing scientific publications.

**Requirements:** University degree (PhD or working experience) in natural sciences (physics, biology, chemistry), computer sciences or a closely related subject. Communication in English is essential since we offer an international working atmosphere at the CMCB and are participating in international projects. The applicant should be an open-minded, service-oriented and communicative team player with deep knowledge in optics and laser protection regulations.

Knowledge regarding data evaluation, statistics, image processing, programming and developing optical technologies is beneficial.

Applications from women are particularly welcome. The same applies to people with disabilities.

Please submit your complete application by the **12.03.2020** (stamped arrival date of the university central mail services applies) preferably via the SecureMail Portal of the TU-Dresden <https://securemail.tu-dresden.de> as a PDF-document to [anne.bayer@tu-dresden.de](mailto:anne.bayer@tu-dresden.de) or: **TU Dresden, CMCB Technologieplattform, Frau Anne Bayer, Tatzberg 47-49, 01307 Dresden**. 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>