

Technical assistant in optics, lasers, and photonics (f/m/d)

The Chair of Biological Imaging (CBI) at the Technical University of Munich (TUM) and the Institute of Biological and Medical Imaging (IBMI) at Helmholtz Munich) are an integrated, multi-disciplinary research structure and form the cornerstone of a rapidly expanding bioengineering ecosystem in Munich, Germany; including the Research Center TranslaTUM and the Helmholtz Pioneer Campus, which integrate bioengineering with oncology and metabolic disorders, respectively. CBI scientists develop next-generation imaging and sensing methods to measure previously inaccessible properties of living systems, hence, catalyzing breakthroughs in biology, medicine and the environment. Comprising 11 inter-disciplinary laboratories and scientists from more than 25 countries, CBI offers state-of-the-art infrastructure for innovative research and a perfect environment to accelerate your career.

We now seek a talented and highly motivated **technical assistant (f/m/d) in optics, lasers, and photonics** to join our team and participate in the development of highly innovative optical imaging systems.

The Mission:

CBI drives ground-breaking developments at the interface of technology and medicine, innovating imaging technologies based on optical and acoustic contrast that can be applied in basic biology research and implemented in the clinic to support non-invasive diagnostics, treatment, and management of disease. Our portfolio includes a broad range of techniques, including fluorescence molecular imaging and tomography, optical microscopy, optoacoustic microscopy and tomography, that can generate structural and functional information about healthy and diseased tissue. Building upon our extensive expertise in developing methods and systems, we are now focusing on the clinical translation of our techniques.

The successful candidate will play a major part in this effort, working closely with scientists of all levels within a unique interdisciplinary environment. As the successful candidate, you will:

- Design and develop optical and optoacoustic imaging systems in close collaboration with CBI scientists
- Fabricate miniaturized imaging sensors and catheters
- Maintain and operate high-end multimodal microscopes
- Operate, maintain and modify a large specimen cryotome and the attached camera system in close collaboration with CBI scientists
- Support our laboratory staff and scientists on technical aspects of our research
- Assist with general laboratory work, inventory, etc.

Your profile:

The successful applicant must have the following:

- Vocational training, bachelor or master degree in optical engineering, electrical engineering or a related discipline
- Excellent grades and ideally previous job experience in a similar position
- Experience in optics, sensors, lasers, optical fibers
- Programming skills in MATLAB / Labview are an advantage
- High motivation and proactive attitude
- Flexible, independent and solution-oriented working style
- Team player skills and enthusiasm to work in a multi-disciplinary, collaborative environment
- Excellent proficiency in English and German

Our offer:

We offer you the unique chance to make a difference in future healthcare. At CBI, we strongly believe in scientific excellence and innovation. This is your opportunity to be part of and to advance your career in a world-leading research institute, where bioengineering principles meet today's challenges in biology, medicine, and environmental health to develop the solutions of tomorrow. CBI provides a highly international, multi-disciplinary environment with excellent opportunities for professional growth. You will be part of a dynamic, professional and highly motivated team within a stimulating environment and gain international exposure through our partners and collaborators across Europe and the world. We support career development, continued education, and life-long learning.

Situated on the foothills of the Alps, Munich is consistently ranked as one of the most vibrant and enjoyable cities in the world, with an exceptionally quality of life. Greater Munich is also home to several world-class universities and research institutes, creating a truly inspiring intellectual atmosphere.

The successful applicant will initially have a 2-year contract, with the possibility of extension. Salary will commensurate with training, work experience, and seniority (TV-L E 9-13 of Free State of Bavaria). To promote diversity, we welcome applications from talented people regardless of gender, cultural background, nationality, ethnicity, sexual identity, physical abilities, religion and age. Qualified applicants with physical disabilities will be given preference.

Your application:

We are looking forward to receiving your comprehensive application including your letter of motivation, CV and academic transcripts of records preferably in English and in a single PDF file, via email to cbi.recruitment@tum.de. Please indicate "Technical assistant in optics, lasers, and photonics" in the subject line.

For any questions, please contact:

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Links:

www.helmholtz-muenchen.de/en/ibmi/

www.pioneercampus.de

www.translatum.tum.de

<https://www.linkedin.com/company/munichimaging/>

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