

Faculty (all levels; f/m/d) in optoacoustic mesoscopy

The Chair of Biological Imaging (CBI) at the Technical University of Munich (TUM) and its integrated Institute of Biological and Medical Imaging (IBMI) at the Helmholtz Zentrum München (HMGU), Germany, now seek highly qualified and motivated candidates for a faculty position to lead the development and application of optoacoustic mesoscopy to biology and medicine, with a major focus on skin sensing and imaging.

CBI is the cornerstone of a rapidly expanding bioengineering ecosystem in the Munich science area; 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, catalyzing breakthroughs in biology, medicine, and the environment. Comprising 11 interdisciplinary 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. Our research aims to shift the paradigm of biological discovery and healthcare impact and address the major health challenges of our time by developing the medical solutions of tomorrow.

The Mission:

At CBI, we are pushing the limits of resolution, depth, speed, contrast coverage, specificity, and sensitivity of optical imaging. Optoacoustic imaging combines the high contrast and resolution of optical excitation at depths comparable to ultrasound imaging. These characteristics give optoacoustic imaging a competitive edge over other imaging methods currently applied in biology, medicine, environmental sensing, and pollution monitoring.

The **Optoacoustic Mesoscopy Laboratory** will conceive, design, and develop technology that enables unique anatomical, functional, and molecular measurements of disease biomarkers. Qualified candidates will lead, strengthen, and expand our research agenda along the lines of technology development and clinical translation and lead a team of postdoctoral fellows and graduate students.

Your profile:

The new faculty member should have a stellar academic track record and a solid background in physics, engineering, optics, applied mathematics, or associated disciplines. Past experience with, and a passion for, biomedical applications is desirable. The successful applicant is further expected to become an integral member of the Bioengineering Community in Munich and contribute to strategy and entrepreneurial activities as well.

Candidates should be interested in working in an interdisciplinary team of bioengineers, imaging scientists, data scientists, medical doctors, biologists, biochemists, and neuroscientists at the interface of different research institutes and interface with other research groups at the Helmholtz Zentrum München and TUM. Experience with group supervision and management, including successful raising of extramural research funding and supervising other scientists and PhD students will be considered an asset.

Our offer:

We offer you the unique chance to impact the future of healthcare. The successful applicant will have a 2-year contract with the possibility of further extension and a long-term perspective. We

offer a competitive salary and benefits depending on work experience and seniority in accordance with the public service wage agreement of the Free State of Bavaria (TV-L).

CBI provides a highly international, multi-disciplinary environment with excellent opportunities for scientific collaboration and access to premium research facilities at TranslaTUM and the campus of the Helmholtz Zentrum München. You will be immersed in a dynamic, professional, and highly motivated institute within a stimulating environment and a top-notch international research network with world-class partners from academia and industry. Furthermore, you will have the opportunity to participate in our teaching activities at the Chair of Biological Imaging at the Technical University of Munich.

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

As an equal opportunity and affirmative action employer, TUM explicitly encourages applications from women as well as from all others who would bring additional diversity dimensions to the university's research and teaching strategies. Preference will be given to disabled candidates with essentially the same qualifications.

Your application:

We are looking forward to receiving your comprehensive application via email to cbi.recruitment@tum.de. The application should be a single PDF file, preferably in English, containing a brief description of your achievements and future research plans (2-4 pages), your curriculum vitae, list of publications, and names and contact details of three referees. Please indicate "Faculty in optoacoustic mesoscopy" in the subject line.

For any question please contact:

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