

PhD student in fluorescence molecular endoscopy (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 highly qualified and motivated PhD student in fluorescence molecular endoscopy (f/m/d) to drive the development of a novel fluorescence molecular endoscope.

The Mission:

We work 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 at unprecedented depths inside organisms. Building upon our extensive expertise in developing methods and systems, we are now focusing on the clinical translation of our techniques.

Therefore, if you have expertise in optics, imaging sensors, and sensor evaluation boards join our team and help us gain as many biomedical relevant insights as possible from our imaging studies. Our goal is to develop a unique endoscope for near infrared fluorescence molecular imaging, as well as to explore new clinical applications that could benefit from such a technology. This is your opportunity to contribute to a medical imaging revolution!

Your profile:

The successful applicant must have the following:

- A master degree in Engineering, Physics, Optics or related discipline.
- Strong motivation, scientific curiosity, and commitment to scientific excellence.
- Experience with miniaturized sensors, hardware control, and programming.
- Expertise in electronics, imaging, and embedded systems.
- Programming skills in C++ / Labview are an advantage.
- Excellent writing skills and motivation to publish.
- Team player skills and enthusiasm to work in a multi-disciplinary, collaborative environment.
- Excellent command of the English language.

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 3-year contract, with the possibility of extension. Salary will commensurate with training, work experience, and seniority (TV-L E13-65% 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 "PhD student in fluorescence molecular endoscopy" 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

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