

Ph.D. / Postdoctoral Fellow in Optical Imaging

The Institute for Biological and Medical Imaging (IBMI) and the Chair for Biological Imaging (CBI) are a multi-disciplinary academic and research structure integrated at the Technische Universität München (TUM) and the Helmholtz Zentrum München. With a strong international profile, support by public and private funding and having received several prestigious national and international awards, the IBMI/CBI leads innovative imaging and sensing technologies, advances bio-medical discovery and translates novel sensing technologies to clinical applications.

We are now seeking for a highly qualified and motivated

PhD Student / Postdoctoral Fellow in Optical Imaging

to build a next generation fluorescence spectral camera and method for guiding surgical intervention. Qualified candidates are expected to significantly contribute to our ongoing activities of introducing fluorescence molecular imaging into the clinics to shift the paradigm in interventional imaging.

Positions are offered at the **Ph.D.** and **Post-doctoral level**.

Tasks will include but will not be exclusively limited to:

- Development of a novel synthetic system of cameras.
- Software development for spectral camera control and operation.
- Development of image processing algorithms.
- Feasibility studies on large phantoms, tissues and small animals
- Clinical studies
- Analysis and presentation of clinical data

Qualified candidates should be able to demonstrate an excellent academic track record, strong analytical skills and at least three of the following:

- Understanding of electronics.
- Understanding of optics.
- Experience with lasers, cameras and photonic devices.
- Experience with tissue optics and diffuse optics.
- Strong programming skills, including hardware control (Matlab, Labview).
- Good command of English

Preferred qualifications further experience with optical spectroscopy or other spectral techniques, camera systems or with imaging techniques.

IBMI/CBI is an internationally recognized top research institution offering a creative and stimulating work environment. With research bridging physics and engineering with chemistry, biology and medicine there are very diverse opportunities to innovate, collaborate and excel. We support career development, continuing education and teaching and training opportunities. Salary is commensurate with work experience and seniority. We look forward to receiving your application by email – please indicate the position you are applying for in the subject line. Please send your application via email with the indication of “**PhD / Postdoc Optical Imaging**” in the subject line to Zsuzsanna Öszi zsuzsanna.oeszi@tum.de

Contact information:

Ms. Zsuzsanna Öszi (zsuzsanna.oeszi@tum.de)
