

## Post-doctoral Fellow for Functional Neuroimaging via MRI, Optoacoustics and Light-Sheet Microscopy

The Institute for Biological and Medical Imaging (IBMI) <http://www.helmholtz-muenchen.de/en/ibmi/> & Chair for Biological Imaging (CBI) of the Helmholtz Zentrum München and the Technische Universität München is a multi-disciplinary academic and research structure focusing on innovating optical and optoacoustic imaging technology and enabling novel visualization opportunities in biology and medicine. With a solid international presence and several prestigious awards, IBMI/CBI leads imaging and sensing technologies by bridging multiple educational disciplines, including mathematics, physics, engineering, chemistry, biology and medicine.

We are now looking for a qualified and highly motivated

*Post-doctoral Fellow for Neuroimaging via MRI, Optoacoustics and Light Sheet Microscopy who wants to get involved in our research program focused on next generation molecular contrast agents for non-invasive neuroimaging of brain function and remote control systems for neuronal processes*

### Requirements:

Qualified candidates should be able to demonstrate

- an excellent and recent doctoral degree in (bio)physics, (neuro)imaging, (bioimage)informatics, statistics, (bio)engineering, or related disciplines
- a background in BOLD fMRI or molecular imaging of animal models e.g. with calcium sensors
- a strong ability to conduct quantitative image analysis (image processing including co-registration, motion correction, filtering, statistics, mathematical modeling)
- a very good knowledge of MATLAB, C or similar languages and software packages such as SPM, FSL or AFNI
- the ability to be self-motivated and work with an interdisciplinary team of bioengineers, biochemists and neuroscientists
- excellent English language and organizational skills

Preferred qualifications further include one or more of the following

- an interest in bioengineering of remote control systems (such as optogenetics, pharmacogenetics) to functionally dissect neuronal circuits
- a background in molecular protein design and engineering, molecular biology, bioconjugation chemistry, cell and tissue culture

### Offer:

IBMI/CBI offers a stimulating multi-national research environment that promotes creativity, innovation and collegiality. We further offer training opportunities, comprehensive research facilities and multiple opportunities for collaborative work. Initial employment duration and salary compensation will depend on applicants' qualification and it is open to negotiation.

We welcome and look forward to receiving your application via email with the indication of "**Functional Neuroimaging**" in the subject line. Please include all the relevant documents in a single .pdf file.

Contact information: Prof. Gil Westmeyer, [www.westmeyerlab.org](http://www.westmeyerlab.org), [ga49qal@mytum.de](mailto:ga49qal@mytum.de)