

Post-doctoral Fellow for molecular imaging

The Laboratory for Molecular Imaging (Prof. Westmeyer) in the Department for Nuclear Medicine (Director: Prof. Schwaiger) is inviting applications for

1 Postdoctoral Position in the area of bioengineering/synthetic biology for molecular imaging

You will be involved in our research focused on next generation molecular contrast agents for non-invasive neuroimaging of brain function and remote control systems for neuronal processes.

Our research facilities at the University Hospital of Technische Universität München (<http://www.tum.de/en/homepage/>) and the collaborating Institute for Biological and Medical Imaging (IBMI, <http://www.helmholtz-muenchen.de/en/ibmi/>) are equipped with state-of-the-art synthetic biology and biochemistry instrumentation as well as multimodal imaging systems, including small animal MRI machines, hybrid MRI/PET, PET/CT, Multispectral Optoacoustics, Bioluminescence, 2-P microscopy.

You are:

a highly motivated scientist (m/f) with

- an excellent and recent doctoral degree in (bio)physics, (bio)engineering, synthetic biology, biotechnology, biochemistry, molecular biology or related disciplines
- a thorough understanding and practical experience of synthetic biology techniques, such as protein design, modular assembly methods à la Gibson and multi-gene expression systems in mammalian cells.
- an interest in bioengineering of remote control systems (such as optogenetics, pharmacogenetics) to functionally dissociate neuronal circuits
- a strong ability for biophysical modeling e.g. of electromagnetic fields and protein-protein interactions as well as a strong ability for quantitative image analysis
- a background in BOLD fMRI or molecular imaging e.g. with calcium sensors is desired
- the ability to be self-motivated and work with an interdisciplinary team of bioengineers, biochemists and neuroscientists
- excellent English language and organizational skills

We offer:

state-of the art facilities and a creative and intellectually stimulating scientific community located in Munich, a city with highest quality of life.

You will have the opportunity to collaborate with excellent international laboratories for instance at MIT or at UC Berkeley. The position is initially for three years with the option of an extension. Remuneration will be paid according to the collective agreement for civil servants of the federal states ("TVL").

The University Hospital "Klinikum rechts der Isar" of Technische Universität München strives to increase the proportion of women. Applications from women will therefore be most welcome. Candidates with disabilities will be given preference if equally well qualified

How to apply

If you are interested in joining our team, please email your application as a single PDF-file.

Your application should include a cover letter, a one-page description of research interests, details of previous research experience and your CV.

Please also do not hesitate to contact us should you have further questions regarding the position.

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