UNI FREIBURG

IMBIT //
Intelligent Machine-Brain Interfacing Technology

65% E13 PhD Position in Neuroscience (Two-Photon Imaging) at the University of Freiburg, Germany

The Optophysiology lab (Prof Diester) is offering a 65% E13 position for a project on cognitive motor control in mice in a **virtual reality combined with readout of neuronal activity via 2-photon calcium imaging and holographic optogenetic stimulation**. The project will involve diverse techniques from animal behavior and recording of neural population activity with 2-photon imaging to data analysis and management. The position comes with a 65% TVL13 salary.

Ideal candidates already have some experience with rodent behavior, electrophysiology or two-photon imaging and data analysis. Good programming skills are essential (e.g. Python/Matlab). Above all, you should be curious and enthusiastic, enjoy working collaboratively, and be motivated to tackle a challenging project. We are looking for someone who is interested in the detailed analysis of neural activity during behavior and open to acquire new skills and techniques.

Successful candidates will join the Optophysiology Group headed by Prof. Dr. Ilka Diester at the University of Freiburg. We are an international research group located at the brand new IMBIT research building. The group's core research area is **cognitive motor control**. We apply modern techniques focusing on **optogenetics, multielectrode array recordings, as well as 1- and 2photon imaging in trained rodents**.

The University of Freiburg has a tradition reaching back to the year 1457. It is among Germany's strongest research universities and houses two excellence clusters. The lab is located at the campus of Engineering and is within walking distance of the old city center. Freiburg is Germany's sunniest city and located in the Black Forrest at the trijunction between France (Alsac), Switzerland, and Germany. It is well connected by train and plane (Basel airport). It is a multicultural city with a high percentage of students and offers many cultural and recreational activities like hiking, climbing, and skiing.