

Post-Doctoral position is available immediately at the laboratory of Prof. Anton Sirota at the Ludwig-Maximilians University München (Germany) for the research project that is part of international collaborative research consortium *BrainCom* (<http://www.braincom-project.eu>). The goal of the project is to identify decoding capacity of the network dynamics across cortical circuits derived from the multichannel high-density surface and depth cortical field potential recordings for applications to neuroprosthetics. As a corollary, we aim to develop, for the first time, experimentally-derived circuit-level forward model for the depth and surface cortical field potentials. The project will combine innovative multichannel electrophysiology with optogenetic circuit-specific manipulation and quantitative behavior analysis in rodents, as well as novel analytical approaches. Project will be integrated into diverse and innovative research program of the Sirota lab (<http://cogneuro.bio.lmu.de>). Our lab is integrated into Bernstein Centre for Computational Neuroscience Munich (<http://www.bccn-munich.de>), Munich Cluster for Systems Neurology (<http://www.synergy-munich.de>) and the Graduate School of Systemic Neurosciences (<http://www.gsn.uni-muenchen.de>).

Applicants are expected to be highly motivated, hard working, creative and capable of independent, analytical and critical thinking. PhD in neuroscience and strong background in physics, computer science or engineering are required. Solid experience in *in vivo* electrophysiology, optogenetics and computational neuroscience is highly desirable. Strong quantitative and technical skills are a must. Good knowledge of signal processing and machine learning is a plus. Proficiency in English and good written and oral communication skills are a prerequisite. Good social and team-work skills are expected. Strong first author publication record is required.

Applications should include a full CV, a brief statement of research experience and career goals, and names of at least 2 referees. Please, send your application electronically as a single PDF file to Prof Anton Sirota at sirota@bio.lmu.de .

Employment is according to the state employees salary scheme (TV-L/E13) and is initially for 1 year with the option for extension. Candidate selection will be open until the position is fulfilled. LMU Munich is an equal opportunity employer. Applications of women and disabled persons, given similar qualification, are preferred.