

Post-doc on modeling neural circuit dynamics and homeostasis at FIAS (Frankfurt)

A 2-year post-doc position on modeling neural circuit dynamics and homeostasis is available at the Frankfurt Institute for Advanced Studies (<https://fias.uni-frankfurt.de/en/>). The project aims at better understanding how different plasticity mechanisms maintain neural circuits in healthy activity regimes suitable for information processing and how these mechanisms may break down in certain network disorders. We are also interested the role of non-neuronal cell types in the process. The project is jointly lead by Prof. Jochen Triesch and Prof. Peter Jedlicka. The successful candidate will have the possibility to work closely together with experimental labs from Frankfurt's vibrant Neuroscience community. The project is funded through Frankfurt's new Center for Personalized Translational Epilepsy Research (CePTER).

Applications (single pdf file including CV, list of publications, statement of research interests and names and email addresses of three references) should be sent to jedlicka@em.uni-frankfurt.de and triesch@fias.uni-frankfurt.de.

The ideal candidate will have obtained a PhD/Master Degree in Computational Neuroscience or closely related field and have a strong interest in applying their knowledge to problems of medical relevance. A strong background in either neural mass models or spiking neural network models or compartmental modeling is expected. Experience in modeling epilepsy, neural plasticity and neuroimmune interactions is a plus. Review of applications will begin immediately and continue until the position has been filled.

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