

The **Sonderforschungsbereich 1089 (SFB 1089)** on **Synaptic Microcircuits in Health and Disease (www.sfb1089.de)** has recently been renewed for funding by the Deutsche Forschungsgemeinschaft (DFG) and is looking to recruit

PhD students (E13 65% TV-L) and postdoctoral scientists (E13 TV-L)

starting as soon as possible and is for a period of 3 years, with the possibility of an extension.

The SFB 1089 is a research network of groups from the **Medical Faculty and the Natural Sciences Faculty of the Rheinische Friedrich Wilhelms University Bonn, the Center for Neurodegenerative Diseases (DZNE) and the Caesar Research Institute of the Max Planck Society and the Weizmann Institute (Israel)**. Projects within the SFB are studying the fundamental rules that govern the dynamics of neuronal behavior at the network level, the translation of neuronal network dynamics to mammalian and human behavior and the link between neuronal network function and dysfunction to the pathophysiology of common CNS diseases. They cover the complete range from molecular mechanisms underlying the development and function of synaptic microcircuits to in vivo studies in animal models and to the analysis of network activity in the human brain. The SFB 1089 is well embedded in the excellent research infrastructure of the participating institutions and offers access to state-of-the-art technologies, well-equipped laboratories and a vibrant scientific community.

Positions are available in the following groups:

[Sandra Blaess](#), Institute of Reconstructive Neurobiology: *Development of modulatory circuits* (sblaess@uni-bonn.de), PhD student position

[Heinz Beck](#), Department of experimental Epileptology and Cognition Research: *Modulatory circuits controlling the dentate gyrus in vivo* (Heinz.Beck@ukbonn.de), PhD student position

[Albert Becker](#), Institute of Neuropathology: *Immune signaling in the development of epileptogenic networks* (albert_becker@uni-bonn.de), PhD student position

[Frank Bradke](#), DZNE, *Axon growth and regeneration* (frank.bradke@dzne.de), PhD student and postdoc position

[Dirk Dietrich](#), Department of Neurosurgery: *Deformed 3D ultrastructure of synapses and perisynaptic space as a novel mechanism leading to epilepsy and cognitive syndromes*, (dirk.dietrich@uni-bonn.de), PhD student position

[Laura Ewell](#), Department of Epileptology: *High-density single unit recording in animal models of epilepsy: normal and abnormal memory processing* (laura.ewell@ukbonn.de), PhD student position

[Juergen Fell](#), Dept. of Epileptology: *Human intracranial EEG, LFPs and action potentials during memory operations* (juergen.fell@ukbonn.de), postdoc position

[Susanne Schoch](#), Institute of Neuropathology: *Synaptic plasticity in neuronal networks in health and disease* (susanne.schoch@uni-bonn.de), PhD student position

[Karen Van Loo](#), Institute of Neuropathology: *Transcriptional mechanisms in the development of epileptogenic networks* (kmjvanloo@hotmail.com), PhD student position

[Valentin Stein](#), Institute for Physiology: *Neddylation of synaptic proteins* (vstein@uni-bonn.de), PhD student position

The ideal candidate will be an ambitious, highly motivated, team-oriented graduate with a strong interest in neurobiology. Prior research experience with animal experimentation, microscopy, or electrophysiology techniques is advantageous. Candidates should hold a Master's degree or equivalent in Neuroscience, Biological Science, Biomedical Engineering, or a related field. Candidates should also demonstrate aptitude in written and spoken English.

The University of Bonn is an equal opportunities employer.

Applications should be directed to the PIs with available positions. Applicants should send a cover letter stating the relevant background, CV, copies of the last university degree (MA or equivalent for a PhD position, respectively the PhD certificate) and two reference contacts by email as a single PDF. Please refer to the application number 261_2017.

The PhD position will be integrated into the THEME PhD Program of the University of Bonn Medical School. We offer supportive mentoring and a well-equipped laboratory. Successful candidates will be awarded a PhD.