Postdoctoral Position – Synaptic and Local Circuit Dynamics

An NIH-funded postdoctoral position is available immediately to examine synaptic and local circuit properties in the thalamocortical system, using a combination of electrophysiology, multiphoton imaging, and optogenetics. Our research aims to characterize the dynamic properties of distinct types of synapses, to determine how synaptic inputs are integrated in dendritic trees, and to characterize the behavior of well-defined neuronal circuits. Current projects focus on the properties and functional consequences of cholinergic synaptic signaling in the thalamus, the role of excitatory GABAergic synapses, and the regulation of synaptic plasticity by endocannabinoids. See [http://nba.uth.tmc.edu/resources/faculty/members/beierlein.htm](http://nba.uth.tmc.edu/resources/faculty/members/beierlein.htm) for additional information.

Candidates should hold a PhD, MD or equivalent degree. While experience with electrophysiological methods is desirable, we particularly encourage applications from candidates who have a strong background in other relevant experimental or theoretical/computational techniques. To apply, please send a CV, a short description of interests and relevant expertise, and the names and contact details of three academic referees to michael.beierlein@uth.tmc.edu.

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