



MICE BRAIN SLICE EXPERIMENTS POSITION

Postdoctoral researcher position in Grover, Chamanzar, Kainerstorfer, Barth, Gittis labs at CMU

A postdoc position on brain slice experiments at the intersection of experimental and computational neuroscience is available working jointly with the labs of Pulkit Grover, Maysam Chamanzar, Jana Kainerstorfer, Alison Barth, and Aryn Gittis at Carnegie Mellon University (Pittsburgh, PA). The team's goal is to develop novel methods for neural stimulation and recording in somatosensory and motor cortex for closed-loop experiments in rodents and in future in non-human primates. We aim to establish advanced theoretical techniques, closely with experimental validation, for invasive and noninvasive high-throughput neurostimulation and recording with high spatiotemporal resolution for advancing treatment of disorders such as epilepsy, Parkinson's, and brain injuries. This is an ideal opportunity for a neuroscientist or a biomedical engineer who wants to be involved in developing next generation neural interfacing techniques and use these advanced methods for fundamental and applied neuroscience studies.

We are actively and urgently looking for candidates for this position. This is an opportunity to work on a challenging scientific problem in a highly interdisciplinary and vibrant environment. The postdoc will be affiliated with the Carnegie Mellon Neuroscience Institute, and will get the opportunity to work with a team of accomplished researchers from various disciplines ranging from Biological Sciences, ECE, BME at CMU as well as clinicians at University of Pittsburgh.

Requirements: Prior experience with rodent surgeries, particularly mice. Interest in or experience with brain slice preparation and experiments. Experience with patch clamp recording and electrophysiology or voltage imaging in neurons is essential. The labs are committed to the professional development of the members, making this position a valuable preparation for those interested in academic, industrial or entrepreneurial careers. The position has no mandatory teaching or administrative duties.

The ideal start date is as soon as possible (11/2018 or shortly thereafter), but application review will continue until the positions are filled. The position is initially for at least 12 months with the possibility of renewal. Compensation will be competitive, and commensurate with relevant experience. CMU has competitive benefits (including comprehensive medical insurance) and is an equal opportunity employer. Candidates should send a CV, a statement of research experience and interests, expected date of availability, and the contact information for three references to pulkit@cmu.edu, mchamanz@andrew.cmu.edu, and jkainers@andrew.cmu.edu with the subject line "Brain Slice Positions".



MICE BRAIN SLICE EXPERIMENTS POSITION

Technician position in Grover, Chamanzar, Kainerstorfer, Barth, Gittis labs at CMU

A technician position on brain slice experiments is available working jointly with the labs of Pulkit Grover, Maysam Chamanzar, Jana Kainerstorfer, Alison Barth, and Aryn Gittis at Carnegie Mellon University (Pittsburgh, PA). The team's goal is to develop advanced theoretical techniques, closely with experimental validation, for invasive and noninvasive neurostimulation and sensing for advancing treatment of disorders such as epilepsy, Parkinson's, and brain injuries. The role of the technician is to perform surgeries and prepare brain slices and help with the experiments. The technician is expected to directly work with students and postdocs to design and conduct experiments.

We are actively and urgently looking for candidates for this position. This is an opportunity to work on an exciting scientific project in a highly interdisciplinary and vibrant environment. The postdoc will be affiliated with the Carnegie Mellon Neuroscience Institute, and will get the opportunity to work with a team of accomplished researchers from various disciplines ranging from Biological Sciences, ECE, BME at CMU as well as clinicians at University of Pittsburgh.

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