



Postdoctoral Position – Rodent surgery and electrophysiology, motor learning and stroke rehabilitation.

**Motor Systems Neuroscience Laboratory
Cedars-Sinai Medical Center, Los Angeles**

We have a postdoctoral position available in the Motor Systems Neuroscience and Neural Engineering [Laboratory](#) at Cedars-Sinai's [Center for Neural Science and Medicine \(CNSM\)](#) in Los Angeles. Our lab is utilizing a combination of systems neuroscience & neural engineering methods, along with causal manipulation (optogenetic/ electrical stimulation) of networks to understand the process of motor skill learning and recovery post-injury (stroke) in the brain. While our prior work looked at primary motor cortex (M1) for these themes (Gulati *et al*, *Nat Neurosci* 2014; Gulati *et al*, *Nat Neurosci* 2017; Kim, Gulati & Ganguly, *Cell* 2019; Gulati *et al*, *J Neurosci* 2015; Ramanathan*, Guo*, Gulati* *et al*, *Nat Med* 2018), our current work investigates M1 and cerebellum during skill learning and stroke recovery (Abbasi *et al*, *J Neural Eng & Rehab*, 2021; Abbasi *et al*, *Biorxiv* 2022- summarized in twitter thread [here](#); Fleischer *et al*, *Biorxiv*, 2022- summarized in twitter thread [here](#)). Postdoctoral fellow will lead the rodent surgeries for neural implants, rodent stroke models and viral injection procedures. Postdoc fellow will also participate in neurophysiology recordings, behavioral trainings, and analyses. Salary will follow the minimum salary guidelines for California exempt employees and position is eligible for excellent Cedars-Sinai benefits.

Requirements

Applicants are expected to have a PhD in Systems Neuroscience or a related discipline. Candidates should have prior experience in neural implant (recording/ stimulation) surgical procedures and viral injections as evidenced through a first-author publication. Prior experience with rodent stroke/ brain-injury models and/ or behavioral trainings is desirable. Experience in electrophysiology data analyses is a plus.

Application Instructions

Interested applicants should contact Dr. Tanuj Gulati with their CV, an email stating their interests & experiences, and contact information for 2-3 references.

Email: tanuj.gulati@csmc.edu

Lab website: www.gulatilab.org