

Postdoctoral Scholar Tufts University

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Posted Dec. 2, 2025, set to expire Apr. 10, 2026

Job Title	Postdoctoral Scholar
Department	Department of Neuroscience
Institution	Tufts University Medford, Massachusetts
Date Posted	Dec. 2, 2025
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Biology - Neuroscience/Neurobiology Biology - General Sciences - General
Job Website	https://jobs.tufts.edu/jobs/22602?lang=en-us&iis=Job+Board&iisn=AcademicKeys
Apply By Email	
Job Description	

Overview

The Department of Neuroscience is a basic research department focusing on synaptic biology and glia biology. The lab of Dr. Dulla investigates how synapses are formed and remodeled in the developing nervous system with a broad focus on neurological disease and epilepsy. We address this question in mouse models and apply electrophysiological and imaging approaches, together with mouse behavioral and in vivo electrophysiological studies.

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What You'll Do

Postdoctoral Researcher in Neuroscience – Genetic Epilepsy. The Dulla Lab at Tufts University School of Medicine is seeking a highly motivated and creative Postdoctoral Researcher to join our collaborative team studying Scn8a-related epilepsies. This position offers the opportunity to work at the interface of molecular genetics, circuit neuroscience, imaging, and therapeutic development, with the goal of understanding how Scn8a mutations drive epilepsy and associated neurological dysfunction. The successful candidate will use a diverse set of cutting-edge approaches, which may include: Electrophysiology, Live imaging (2-photon, confocal), Mouse behavior, and EEG/ECOG recordings, Molecular biology, and genetics, Development and testing of ASO-based splicing therapies and other potential treatments. Responsibilities will include designing and executing experiments, analyzing and interpreting data, managing mouse colonies, and contributing to manuscripts, grant applications, and conference presentations. The role also provides opportunities for mentoring junior trainees and pursuing independent career development, including support for fellowship and K-award applications. This position is part of an NIH/NINDS R01-funded collaborative project with Dr. Madeleine Oudin (Tufts University) and Dr. Chris Burge (MIT), offering a rich, interdisciplinary training environment that spans cell biology, RNA biology, and systems neuroscience. The postdoc will be based on the Tufts Boston Biomedical Sciences campus, with active collaboration across participating labs. Preferred Qualifications: Experience with mouse models, electrophysiology, imaging, or RNA biology, Background in epilepsy, ion channels, neurogenetics, or related fields, Strong quantitative, data analysis, and communication skills, Enthusiasm for team science and mentoring. This is a unique opportunity to contribute to impactful research with clear translational relevance, supported by a strong mentorship environment and a vibrant neuroscience community.

Essential Functions:

- Designing and carrying out experiments in collaboration with existing team
- Analyzing data and preparing figures
- Writing manuscripts and grants
- General lab duties: mouse colony management, ordering, etc
- Mentoring others in the lab

What We're Looking For

Basic Requirements:

- Preferred candidate should have a doctorate in a field related to neuroscience
- A record of published scientific research, complex data analysis skills, advanced methodological skills, scientific writing, and scientific presentations are ideal
- Strong quantitative, data analysis, and communication skills
- Experience and comfort working in a fast paced, collaborative environment
- Previous laboratory experience and familiarity with basic laboratory techniques and procedures

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Preferred Qualifications:

- Experience with mouse models of neurological disease
- RNA biology
- Background in epilepsy, ion channels, neurogenetics, or related fields
- Electrophysiology and/or imaging
- Enthusiasm for team science and mentoring.
- Experience with confocal microscopy

Pay Range

Minimum \$65,000.00, Midpoint \$65,000.00, Maximum \$65,000.00

Salary is based on related experience, expertise, and internal equity; generally, new hires can expect pay between the minimum and midpoint of the range.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

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