

HARVARD UNIVERSITY

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Postdoctoral position in Adam Cohen Lab

We are looking for a creative, broad-minded and highly motivated postdoc to lead an effort to develop protein-based recorders of neural activity. An initial effort in this direction is described here:

Lin, Dingchang, Xiuyuan Li, Pojeong Park, Benjamin Tang, Hao Shen, Jonathan B. Grimm, Natali Falco, David Baker, Luke D. Lavis, and Adam E. Cohen. "Time-tagged ticker tapes for intracellular recordings." *bioRxiv* (2021). <https://www.biorxiv.org/content/10.1101/2021.10.13.463862v1.abstract>

We aim to develop scaffolds which can record the ticker tape-like dynamics of diverse modalities, including gene expression, calcium concentration, and intracellular signaling cascades. Ultimately we aim to record brain-wide dynamics of neural activity with single-cell resolution, in behaving mice.

The desired skills are (in order of importance): protein engineering, microscopy and image analysis, and *in vivo* neuroscience. The postdoc will have substantial flexibility to define the approach and milestones of the project. The postdoc will join a very strong team of experts in molecular, optical and software tool development, as well as experts in neuroscience and physiology in the Cohen Lab, and have connections to the Department of Chemistry and the Center for Brain Science at Harvard.

We expect successful candidates to have strong academic background and publication record. The position is renewable annually, with immediate start availability. Salary will be based on experience and track record.

Applicants should send cover letter, resume and contact information for references to Adam Cohen, cohen@chemistry.harvard.edu.