

Dartmouth College, Thayer School of Engineering

Position ID: [Dartmouth-Thayer School of Engineering-POSTDOC](#) [#19297, 1127635]
Position Title: Postdoctoral Research Associate B - Neural Engineering and Implantable Devices
Position Type: Postdoctoral
Position Location: Hanover, New Hampshire 03755, United States [[map](#)]
Subject Areas: [Engineering](#) / [Bioengineering](#), [Device Engineering](#)
[Neurobiology](#) / [neurophysiology](#)
Appl Deadline: 2022/02/25 11:59PM (accepting applications posted 2021/08/25)
Position Description:

Postdoctoral Position in Neural Engineering and Implantable Devices

The **Fang Lab** at Dartmouth College, Thayer School of Engineering, seeks highly motivated individuals to fill two postdoctoral positions. Our goal is to develop multifunctional, scalable neuroelectronics for understanding the brain and disease treatment. We have NIH-funded BRAIN projects to create, validate and apply large-scale, soft neuroelectronic probes. We are an experimental lab with a team of electrical engineers, materials scientists, and bioengineers. Positions are available immediately until filled.

Candidates should have at least one of the following training/expertise:

- (1) Tissue response studies to neural implants. Candidates should have solid experience with investigating tissue response to neural implants, especially over the long term. Having experiences with in vivo neural recordings is an asset.
- (2) Large-scale electrophysiology. Candidates should have expertise in large-scale extracellular spike recordings and corresponding signal processing in the context of understanding animal behavior.
- (3) Neurotransmitter sensing. Candidates should have ample experience working with in vivo or ex vivo electrochemical sensing of neurotransmitters (such as dopamine, serotonin, norepinephrine, epinephrine) in the context of neurological diseases and pharmacology.

An earned Ph.D. is required, as are excellent communication skills.

Qualified candidates are strongly encouraged to send their (a) CV and (b) names and contact info of at least two references to Prof. Hui Fang at hui.fang@dartmouth.edu before formally applying.

The lab closely interacts within the **Integrative Neuroscience at Dartmouth** program with faculty from the departments of Biology, Biochemistry, Psychological & Brain Sciences, Neurology, Psychiatry, Surgery, Epidemiology, Molecular & Systems Biology. Together with Thayer School of Engineering, this tightly knit group values cross-lab interactions and fosters collaborative publications and mentoring. The relationships one makes in this research environment will nourish and support their scientific aspirations and personal growth.

Dartmouth College is an equal opportunity/affirmative action employer with a strong commitment to diversity and inclusion. We prohibit discrimination on the basis of race, color, religion, sex, age, national origin, sexual orientation, gender identity or expression, disability, veteran status, marital status, or any other legally protected status. Applications by members of all underrepresented groups are encouraged.

Employment in this position is contingent upon consent to and successful completion of a pre-employment background check, which may include a criminal background check, reference checks, verification of work history, and verification of any required academic credentials, licenses, and/or certifications, with results acceptable to Dartmouth College. A criminal conviction will not

automatically disqualify an applicant from employment. Background check information will be used in a confidential, non-discriminatory manner consistent with state and federal law.

Please note that Dartmouth has a COVID vaccination requirement for all employees; visit <https://www.dartmouth.edu/hrs/> for details and information on requesting an exemption and/or reasonable accommodation. Compliance with this requirement is a condition of employment.

Dartmouth College is a registered employer in California, Connecticut, District of Columbia, Florida, Massachusetts, Maine, New Hampshire, New Mexico, New York, Rhode Island, Texas, and Vermont. Employment outside of these twelve states may require additional authorization.

We are not accepting applications for this job through AcademicJobsOnline.Org right now. Please apply at <https://searchjobs.dartmouth.edu/postings/58806>.

Contact: Prof. Hui Fang

Email: Hui.Fang@dartmouth.edu

Postal Mail:

14 Engineering Drive
Hanover, NH 03755

Web Page: <https://searchjobs.dartmouth.edu/postings/58806>

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