



Beth Israel Deaconess
Medical Center



A major teaching
hospital of Harvard
Medical School

Postdoctoral Fellow
Neuroscience: synaptic and cellular basis of sleep-wake regulation

The Fuller lab, located in the Department of Neurology at Beth Israel Deaconess Medical Center and Harvard Medical School, has an opening for a Postdoctoral Fellow with a background in neuroscience, physiology, molecular biology, genetics or engineering and expertise with electrophysiological, optogenetic, chemogenetic and neuroanatomical approaches. The Fellow will work on projects investigating the cellular and synaptic circuit basis by which the brain regulates sleep and wakefulness, including the influence of the hypothalamic circadian clock on these processes. Sleep-promoting brainstem neurons (Anaclet et al., 2014, *Nature Neuroscience*), wake-promoting basal forebrain neurons (Anaclet et al., 2015, *Nature Communication*), and wake-promoting GABAergic lateral hypothalamic neurons (Venner et al., 2016, *Current Biology*) are of particular interest.

Responsibilities:

In vivo recording of brain activity using optrodes and/or photometry
In vivo optogenetic and chemogenetic approaches for manipulating neuronal activity
Molecular profiling of genetically defined neuronal populations
Publish/present findings in peer-reviewed journals/scientific conferences

Qualifications:

Ph.D. or M.D. in a biological life science or engineering related discipline
Working experience in neuroscience research
Strong publication record
Strong commitment to collaborative teamwork
Excellent problem solving skills
Strong written and verbal communication skills

Other desired qualifications:

Experience with viral vectors, stereotaxic surgery and opto- or chemo-genetics
Experience with TRAP- and/or Drop-seq
Experience with microendoscopy/optical recordings in vivo
Experience in computer programming
Experience with rodent sleep and/or circadian experiments

Desired start date:

June-September 2017
Salary and duration of the position will be commensurate with experience.

How to apply:

Submit a cover letter, CV and names of three references to Dr. Patrick Fuller [pfuller@bidmc.harvard.edu]