

Postdoctoral Research Fellowships are available at the Brain Imaging Center of University of California, Berkeley for projects funded by the prestigious NIH BRAIN Initiative.

The first project is to develop the NexGen 7T scanner to reach ultra-high spatial resolution in functional MRI, to be innovated, designed and built by Siemens engineers in Germany, and UC Berkeley, Harvard MGH and Vanderbilt university scientists. A research position is available to create and apply pulse sequences and accelerated image reconstructions to fMRI and brain imaging at 7 Tesla to achieve state-of-art high-resolution imaging. Skills in MR pulse sequence programming, image computation, MATLAB and C/C++ are required.

The second project is to develop and apply new methods for mesoscale fMRI to probe brain circuitry at the level of columns and layers. This position will require experience in high field, high resolution functional and structural MR-imaging of the brain. Skills in fMRI experiment design and data analysis in any of the common programming languages (MATLAB, Python C++) are required. Applicants should be highly motivated, with a desire to pioneer new areas of human neuroscience.

Applicants are required to have excellent analytical and problem-solving skills, strong written and oral English communication skills, and ability to write papers for publication and present work at scientific conferences. A background in MR neuroimaging techniques, and a Ph.D. in a field related to the research work are required.

Interested applicants should send a cover letter describing research experience and career goals, a C.V. and contact information for 3 references to: david.feinberg@berkeley.edu.