

The **human intracranial EEG Laboratory** at The Feinstein Institutes for Medical Research – Hofstra Northwell School of Medicine in New York **is looking for one research assistant** with earliest start date in July 2022. The successful candidate will help with the lab's research into (1) improving the identification of functional and pathological brain regions in individuals suffering from epilepsy, (2) the neural mechanisms of cognition, and (3) characterization of macroscale human brain networks. The lab works exclusively with patients being evaluated for epilepsy surgery using methods such as invasive stereo EEG and electrocorticography recordings (iEEG, ECoG), anatomical MRI, fMRI, DTI, and direct electrical brain stimulation.

The position is computationally focused, and responsibilities include analysis of neural, imaging, and behavioral data using existing scripts (Matlab and Python), further development of analysis scripts (depending on proficiency with coding and signal processing), and database managing. However, responsibilities will also include assisting with the collection and analysis of the aforementioned data, project management, assistance with preparing progress reports and grant applications, and helping to present lab findings at conferences and in journals. The relative weighing of responsibilities can also be adjusted depending on interest of the applicant.

In addition, if there is interest, the RA will have her/his own scientific project with dedicated time to work on it. Past research assistants in the lab have presented their work at clinical and basic research conferences, co-authored lab publications, and are working on first author publications. They have gone on to medical schools or PhD programs after spending 1-3 years in the lab.

This unique position will expose the successful applicant to basic and clinical neuroscience as well as neurosurgery, neurology, and neuropsychology. The location of the institute allows living either in the suburban neighborhoods of Long Island, or in vibrant Brooklyn or Queens. Some employees also commute from Manhattan. It is a great opportunity for recent post-bacs interested in medical school or graduate school in neuroscience/biomedical engineering.

----- Qualifications -----

Minimum:

- B.A./B.S./B.E. in an appropriate discipline (e.g., neuroscience, psychology, biomedical engineering, computer science, physics)
- 1 year commitment
- Experience with at least one programming language (MATLAB, R, or Python)

Desirable:

- 2-year commitment preferred
- Prior experience working with neuroimaging, EEG/MEG, or brain stimulation data
- Previous experience working with patients
- Previous work in a research laboratory that shows evidence of independent scholarship, problem solving, and motivation

For more information about the position please send your CV along with your questions to Dr. Stephan Bickel (sbickel@northwell.edu) and Dr. Ashesh Mehta (amehta@northwell.edu). We are looking forward to hearing from you!