

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 to start as soon as possible and by June 2023**. 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) the 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 responsibilities will include assisting with the collection and analysis of the aforementioned data, project management, assistance with grant applications and progress reports, help with analysis of neural and imaging data using existing scripts (Matlab, Python), further development of those scripts (depending on coding and signal processing proficiency), and helping to present lab findings at conferences and in journals. The relative weighting of responsibilities can be adjusted depending on the interest of the applicant.

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

Desirable:

- 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
- Experience with at least one programming language (MATLAB, R, or Python) and statistical analyses
- 2-year commitment preferred

For more information about the position, please send your CV along with your questions to Drs. Stephan Bickel (sbickel@northwell.edu) and Ashesh Mehta (amehta.northwell.edu). You can also find the job posting [here](#). We are looking forward to hearing from you!