Neural bases of chemotherapy-induced cognitive deficits in survivors of childhood leukemia

fMRI-EEG Postdoctoral Position at Albert Einstein College of Medicine in NYC

We are looking for candidates with a passion for the biomedical sciences, contributing to our understanding of diseases and their impact on patients, and having an impact on patient health and wellbeing.

Drs. Elyse Sussman and Mark Wagshul, of the Departments of Neuroscience and Radiology at the Albert Einstein College of Medicine in NY, are seeking a full-time postdoctoral research associate to work on an NIH-funded project exploring the neural bases of chemotherapy-induced cognitive deficits in survivors of childhood leukemia, using EEG- and fMRI-based measures of cognitive function, to understand treatment-related deficits in children ages 5-12 years. Our lab combines advanced event-related potential EEG and functional MRI brain imaging methods to understand cognitive function, and how it is impacted by cancer treatment. The position is immediately; the position is for the duration of the project (through at least March 2025), renewed annually based on performance and funding. Salary is commensurate with current NIH policy.

Successful candidates for the position will have a PhD in physics, biomedical engineering, neuroscience or a related discipline, a strong background in either cognitive neuroscience or MRI physics, expertise in image and/or EEG data processing. Programming experience should include commonly used packages, such as Matlab, and FSL. The candidate should have significant experience in EEG/ERP data collection and analysis methods and/or imaging in a clinical setting and a strong background in the development and/or application of novel methods for human brain imaging, such as DTI/fMRI/structural MRI data analyses. Candidates with experience only in EEG-based or fMRI-based methods will be considered. Previous experience working with children in a research setting is a plus. The candidate will be expected to be involved in all aspects of the project, including EEG, MRI image and data analysis, statistical analysis, as well as interfacing with the clinical team. Competitive salary and benefits will be offered based on qualifications.

The Gruss MRRC is located on the main campus of the Albert Einstein College of Medicine in Bronx, NY. The Center has a multinuclear 3.0 Tesla Whole Body Philips Elition human system along with an on-site Philips Clinical Scientist, see [http://www.einsteinmed.edu/centers/gruss-magnetic-resonance-research/](http://www.einsteinmed.edu/centers/gruss-magnetic-resonance-research/). The Albert Einstein College of Medicine is a leading academic institution, with over $170M in NIH funding. Einstein is home to some 2,000 faculty members, 750 M.D. students, 350 Ph.D. students attending the Sue Golding Graduate Division — including 325 postdoctoral investigators training at our Belfer Institute for Advanced Biomedical Studies.

Interested candidates should send their CV, a brief statement of their research interests and career goals, and three references to Mark Wagshul (mark.wagshul@einsteinmed.edu) or Elyse Sussman (elyse.sussman@einsteinmed.edu). Review of applications will begin immediately and continue until the position is filled.

The Albert Einstein College of Medicine is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, protected veteran or disabled status, or genetic information. Einstein seeks candidates whose skills, and personal and professional experience, have prepared them to contribute to our commitment to diversity and excellence, and the communities we serve.