

CLINICAL RESEARCH COORDINATOR II POSITION FOCUSED ON DTI IN DIVISION OF NEUROTHERAPEUTICS AT HARVARD MEDICAL SCHOOL/ MASSACHUSETTS GENERAL HOSPITAL

Start Date: May 2018

Principal Investigators: Alik Widge MD PhD (primary supervisor), Darin Dougherty MD, Thilo Deckersbach PhD

Responsibilities: Full-time *Clinical Research Coordinator II (CRC II)* needed in the [Division of Neurotherapeutics](#), a multidisciplinary clinical neuroscience group. We conduct neuroimaging, EEG, behavioral, and clinical studies of severe psychiatric illness. Most of our work uses Deep Brain Stimulation and similar devices as tools to both treat disease and understand the brain.

The CRC II will be responsible for both data collection and analysis. Data collection includes application of neuroimaging and electrophysiology (fMRI, EEG), behavioral/psychophysical tasks, and standardized questionnaires. The CRC II will be primarily responsible for performing Diffusion Tensor Imaging (DTI) analysis as well as fMRI and behavioral data analysis for several studies involving neural mechanisms underlying psychiatric illness. Data analysis will include a variety of statistical methods, and will likely require learning new software tools (i.e. Slicer, StimVision, FreeSurfer, SPM). The CRC II will also help produce reports, scholarly clinical research abstracts, posters, and manuscripts for publication and can expect to be credited as an author on many of these.

The CRC II will work closely with Investigators, study staff and the Institutional review Board (IRB) to implement and oversee studies and submit appropriate regulatory forms, document, compile and maintains clinical research data, patient files, regulatory binders and study databases. The CRC II can expect to conduct clinical assessments and work closely with patients by coordinating and administering, scoring, and evaluating study questionnaires/interviews. There will be opportunities to shadow clinicians in the division and/or observe neurosurgeries as part of our research data collection.

The position requires high level technical and analytical skills, the ability to manage data software systems, strong research and writing skills, and the ability and desire to work independently. The CRC will be working closely with severely ill psychiatric patients for data collection, and so should be comfortable and considerate while working with clinical populations. We give preference to candidates who are interested in clinical/translational research work as part of their long-term career.

Qualifications: Bachelor's degree *with at least 1 year of related research experience not for course credit* required. Candidates of all majors are welcomed, but must possess a strong interest in clinical problems and neuroscience. Strong interpersonal skills are a must, and experience with psychiatric clinical populations is highly preferred but not required. Candidates must be organized with attention to detail and able to work independently. Candidates must also possess good writing and editing skills, and basic programming skills in a scientific language such as MATLAB, Python, or R. Familiarity with UNIX/LINUX and C shell scripting is recommended but not required. Candidates must have prior neuroimaging experience, including familiarity with DTI data analysis. Proficiency in Slicer, Trackvis, FreeSurfer (TRACULA) or similar programs is a plus.

Ongoing/upcoming projects:

- Retrospective analysis combining whole brain tractography with DBS electric field models to determine anatomical tracts underlying response and side effects in treatment-resistant OCD
- multiple DBS studies funded by the Brain Initiative and multi-site studies of the neural basis of consciousness

Our laboratory is part of the Martinos Center, one of the world's largest and most diverse human neuroscience centers. There will be many opportunities for a broad exposure to cognitive and emotional neuroscience through seminars, workshops, and peer interactions.

Please send a copy of your CV and a cover letter to Aishwarya Gosai at agosai@mgh.harvard.edu