

Clinical Research Coordinator at MGH/HMS in Neuroimaging

GENERAL SUMMARY/ OVERVIEW STATEMENT:

The Neuroendocrine Unit at Massachusetts General Hospital/Harvard Medical School is seeking a full-time research assistant (Clinical Research Coordinator II) with a strong interest in cognitive neuroscience and brain imaging for an immediate start date. The Clinical Research Coordinator II is an integral member of an interdisciplinary team which supports fMRI data processing for studies on patients and healthy volunteers within a clinical investigational setting in the Neuroendocrine Unit. Our interdisciplinary clinical research program focuses on regulation of eating behavior and metabolism across eating disorders and weights. Under general supervision of the Principal Investigators, who have expertise in neuroscience, neuroimaging, endocrinology, and eating disorders, the incumbent will carry out a broad range of neuroimaging and computer science-based research activities and procedures as indicated below.

PRINCIPAL DUTIES AND RESPONSIBILITIES:

Please note, the functions below are representative of major duties that are typically associated with these positions. Specific responsibilities may vary based upon departmental needs. Similarly, not all duties that have been outlined will be assigned to each position.

The Coordinator will process and analyze neuroimaging data, editing and running SPM12-based scripts and workflows for neuroimaging pipelines. Under the supervision of Dr. Laura Holsen, neuroimaging processing responsibilities include DICOM unpacking, conversion of data to NIfTI (BIDS) format, creation of bash scripts for data organization and description, visual inspection of structural and functional data quality, editing and running MATLAB-based SPM12 preprocessing scripts, quality assessment of motion for functional data, and editing and running first- and second-level models in SPM12 and fMRIPrep.

Additional responsibilities include uploading data to the NIH data archive, preparing detailed agendas and data updates for meetings, and training new staff members in neuroimaging analyses. Clinical responsibilities may include assisting with study visits, interacting with a variety of patient populations including eating disorders and other psychiatric disorders, and MRI data collection and organization. The position will require flexible hours, including early mornings and weekends.

This is a great position for those wanting research experience before applying for graduate school or medical school. Our team has a strong track record of mentoring research assistants who have gone on to pursue medical school or doctoral programs in clinical psychology, cognitive neuroscience, neuroscience, public health and bioinformatics.

SKILLS/ABILITIES/COMPETENCIES REQUIRED:

- Strong computer, statistical, and managerial skills are essential
- Programming skills (some combination of R, MATLAB, bash, python)
- Comfort with Linux environment
- Experience using MATLAB, SPM12, and fMRIPrep
- Familiarity with BIDS format
- Prior knowledge/experience with cloud-based computing
- Careful attention to details
- Good organizational skills
- Ability to follow directions
- Good communication skills
- Working knowledge of clinical research protocols
- Ability to demonstrate respect and professionalism for subjects' rights and individual needs
- Ability to work independently and as a team player
- Analytical skills and ability to resolve technical problems
- Ability to interpret acceptability of data results
- Working knowledge of data management program

EDUCATION:

- Bachelor's degree in computer science, mathematics, psychology, cognitive science, neuroscience, or related field required.

EXPERIENCE:

- Those with a minimum of 1-2 years of experience working in a research lab with neuroimaging using SPM will be considered for the Clinical Research Coordinator II position.

SUPERVISORY RESPONSIBILITY:

- A Clinical Research Coordinator II may assist with the training and orientation of new staff members.

PLEASE SEND to Laura Holsen (lholsen@bwh.harvard.edu) and Lauren Breithaupt (lbreithauptlangston@mg.harvard.edu):

- Letter of interest- highlight how your background complements the lab;s needs and interests
- Current CV
- Sample code

EEO Statement

- Massachusetts General Hospital is an Equal Opportunity Employer. By embracing diverse skills, perspectives and ideas, we choose to lead. Applications from individuals underrepresented in medicine, protected veterans, and individuals with disabilities are strongly encouraged.

Primary Location: MA-Boston-MGH Main Campus

Work Locations

MGH Main Campus

55 Fruit Street

Boston 02114

Job: Clinical

Organization: Massachusetts General Hospital (MGH)

Schedule: Full-time

Standard Hours: 40

Shift: Day Job

Employee Status: Regular

Recruiting Department: MGH Neuroendocrine

Job Posting: May 6, 2021