position description

Date: Feb. 17, 2016
Title: Research Associate
Department: Biomedical Engineering
School: Case Western Reserve School of Medicine
Location: Wolstein Research Building, CWRU, Cleveland, OH
Supervisor Name and Title: Cameron McIntyre, Professor of Biomedical Engineering
Jennifer Sweet, MD, Assistant Professor of Neurological Surgery

POSITION OBJECTIVE
Working under limited supervision, carry out complex research assignments of a non-routine nature. The research involves working with PIs Jennifer Sweet, MD and Cameron McIntyre, PhD to define an imaging biomarker for bipolar type 1 with the use of diffusion weighted imaging, tractography and resting state functional MRI.

ESSENTIAL FUNCTIONS
1. MRI data acquisition
2. Image processing
3. Computer programming
4. Data analysis

NONESSENTIAL FUNCTIONS
1. May co-author research projects
2. Perform other duties as assigned.

CONTACTS
Department: PI, faculty, research staff and administrative staff
University: Other departments as needed
External: Little to no contact with external vendors
Students: Undergraduate and graduate student employees

SUPERVISORY RESPONSIBILITY: None

QUALIFICATIONS
Experience: 2 to 4 years of related experience required

Education/Licensing: A M.S. in engineering, physics or related field is required.

REQUIRED KNOWLEDGE, SKILLS and ABILITIES

1. Demonstrated experience in diffusion-weighted imaging and tractography, and/or resting state function MRI (fMRI). Experience with deep brain stimulation and/or patient-specific computational modeling beneficial.

2. Excellent oral and written communication skills and interpersonal skills; must demonstrate the ability to effectively and professionally communicate and work with various individuals from a broad spectrum of disciplines, technical and educational backgrounds within the department, School and University, and with individuals outside the University.

3. Strong organization skills; ability to multi-task, prioritize and meet deadlines. Must demonstrate attention to detail and accuracy, time management skills, and follow-through.

4. Ability to work effectively independently and collaboratively within a team. Must be highly motivated, responsible, dependable and a self-starter.

5. Ability to work with sensitive information and maintain confidentiality.

6. Effective problem-solving skills; must demonstrate excellent analytical skills, sound judgment and good decision-making.

7. Willingness and ability to rely on and follow instructions and pre-established guidelines to perform the functions of the job.

WORKING CONDITIONS:
The work will be performed in a dry lab environment.

DIVERSITY STATEMENT
In employment, as in education, Case Western Reserve University is committed to Equal Opportunity and Diversity. Women, veterans, members of underrepresented minority groups, and individuals with disabilities are encouraged to apply.