Job Description for Post-doctoral Associate in Gulin Oz’s lab

Job Title: Post-doctoral Associate for Multi-modal MRI/MRS
Job Classification: Post-Doctoral Associate
Job Code: 9546
FTE: 1.0
Reports to: Gulin Oz

Job description:
The University of Minnesota’s Center for Magnetic Resonance Research (http://www.cmrr.umn.edu/) has an opening for a postdoctoral researcher to acquire and analyze multi-modal MRI and MR spectroscopy data for clinical studies on 3T and 7T scanners. Major focus areas will be neurodegenerative diseases and diabetes.

Required Qualifications:
- PhD in Physics, Biomedical/Electrical Engineering, Chemistry, Biochemistry, Biomedical/Electrical Engineering, Biophysical Sciences or a related field
- Demonstrable experience with in vivo MR methods
- Demonstrable experience in image analysis (e.g. Unix environment, programming/scripting in Matlab, Bash, Python)
- Demonstrated ability to conduct collaborative research and to work on multiple projects
- Excellent communication skills

Preferred Qualifications:
- Experience in clinical research
- Experience in the fields of neuroscience and magnetic resonance spectroscopy
- Experience in data acquisition and programming on the Siemens platform

Responsibilities
- Acquire and analyze MRI and MRS data obtained from clinical diabetes cohorts on the 3T and 7T Siemens platforms; data interpretation and preparation of manuscripts in collaboration with clinical and biostatistician team members. Approximately 50% of time will be spent for these activities.
- Analyze morphometric, diffusion and resting state MRI and MRS data acquired at 3T under an international, multi-site clinical trial readiness study for a neurodegenerative disease; apply quality control criteria uniformly to all data; provide guidance on the MRI/MRS protocol to other imaging sites; maintain communication with site personnel to resolve issues related to data quality; data interpretation and preparation of manuscripts in collaboration with clinical and biostatistician team members. Approximately 50% of time will be spent for these activities.