The Biomedical Research Imaging Center (BRIC) is seeking a highly motivated postdoctoral scholar in the field of human neuroimaging. The focus of this position will be on the development of advanced functional and diffusion MRI to study human brain. Candidates should either have completed or be near completing a PhD in engineering, radiology, computer science, or a related field, and should have a strong background in MR physics. Proficiencies with at least one major neuroimaging software suite (e.g. FSL, AFNI, SPM, Freesurfer, Caret, etc.) and Unix/Linux environment are expected. Familiarity with Matlab, Python, C++ and/or R programming languages is particularly welcome. The recruitee will be under the mentorship of the PI WeiTang Chang. A number of exciting projects focus on developing cutting-edge imaging technology to explore not only brain microstructure but also the associated brain-wide networks. One of the NIH-funded projects is focused on studying the aging effect of cortical-hippocampal subfield networks by 1-mm isotropic functional MRI. To understand the structural basis of the neuropathology, another project aims to acquire whole-brain ultrahigh-resolution diffusion imaging within clinical feasible time. Efforts are also dedicated to improve the robustness towards distortion and head motion. Available on-campus resources include multiple research-dedicated MRI scanners (Siemens 7T Magnetom and 3T Prisma), high-performance scientific computing clusters, and an extensive library of analytic and statistical software. The primary work for this postdoctoral fellow will be developing cutting-edge imaging technology for neuroscience/clinical research. Dr. Chang is fully committed to fostering the trainee’s research independence through publication of first-authored manuscripts in top journals and mentorship in grant applications. In addition to assisting with the PI’s proposals, the successful applicant will be highly encouraged to develop and pursue funding for their own research project through federal (e.g. NIH K99) or foundation grant programs. The initial employment period for this position is three years, with the possibility of extension. Salary will be competitive and commensurate with experience. Chapel Hill is located at the renowned research triangle park (RTP) in North Carolina. The cities in the RTP area were constantly ranked as the top 10 place for living in the United States.

PhD in Electrical Engineering, Biomedical Engineering, Computer science or any field related.

Solid background in MR physics. A strong experience with Matlab, C++ and/or Python programming languages.

The University of North Carolina at Chapel Hill is an equal opportunity and affirmative action employer. All qualified applicants will receive consideration for employment without regard to age, color, disability, gender, gender expression, gender identity, genetic information, race, national origin, religion, sex, sexual orientation, or status as a protected veteran.

Please submit applications at https://unc.peopleadmin.com/postings/194872