Post-Doctoral Positions in High-Resolution Diffusion MRI and Applications in Alzheimer’s Disease

The Brain Imaging and Analysis Center (BIAC), in conjunction with Departments of Neurology and Radiology, at Duke University School of Medicine invites applications for two post-doctoral research positions. In particular, we are seeking motivated researchers with in-depth expertise in MR acquisition (e.g. pulse sequence programming) and analysis (e.g. machine learning) methodologies to develop and apply high-resolution diffusion MRI to delineate brain microstructures, from mice to men, and identify early biomarkers in Alzheimer’s disease. A recent doctoral degree in relevant fields is required.

The BIAC, established in 1998, is an inter-departmental research facility directly under the Dean’s Office at the School of Medicine at Duke University. BIAC currently houses 19 core faculty research labs focused on imaging methodology developments and their applications in basic and translational neurosciences, and also serves as a central neuroimaging resource for Duke University. BIAC operates two dedicated 3T whole-body research MRI scanners (Signa Premier UltraHigh Performance 3T and MR750 3T, both by GE Healthcare). In collaboration with Radiology, BIAC also help manage a 7T (30cm bore) Bruker preclinical MRI scanner. Additional preclinical scanners (7T and 9.4T) are available at the Center for In Vivo Microscopy within the Department of Radiology. A state-of-the-art RF lab is available at BIAC for making specialized imaging hardware such as RF coils. BIAC’s computing facilities consist of a 1536-core Hitachi compute cluster and a high-speed network storage with ~400TB online capacity. For more information about our research and learning environment, please visit us at www.biac.duke.edu.

Interested applicants should send their application letters, CVs, and names of three references, via e-mail to info@biac.duke.edu with “High-Resolution Diffusion MRI Postdoc” in the subject line. Additional questions may be directed to Drs. Alexandra Badea (alexandra.badea@duke.edu) or Allen Song (allen.song@duke.edu). Duke University is an equal opportunity employer.