Postdoctoral Position in Translational Neuroimaging

A postdoctoral position is available at the Barrow Neurological Institute (BNI) working with Drs. Richard Dortch and Zhiqiang Li as part of a collaborative effort between the Barrow Neuroimaging Innovation Center, the Department of Neurology, and the Department of Neuroradiology. This translational work will focus on the development of advanced acquisition and image reconstruction techniques for motion correction and metal artifact reduction, with a focus on immediate clinical integration and research applications. Applicants will have opportunities to directly interact with collaborators in neuroradiology, neurosurgery, and industry. Motivated candidates will also have opportunities to develop independent and relevant research projects.

Applicants should have a Ph.D. in physics, engineering, or a related discipline. Competitive candidates will have experience with pulse sequence/image reconstruction development and/or quantitative MRI acquisition/analysis. Experience with Philips programming environment is preferred but not required.

This position, which is fully funded for two years (and renewable up to three years based on performance), is available immediately and offers competitive compensation and benefits.

BNI is the world’s largest neurological disease treatment and research institution, and the Department of Neurology at BNI is a recognized leader in the field. In addition, Barrow is ranked #11 by U.S. News & World Report in the neurology and neurosurgery category.

Outstanding imaging resources are available at BNI, including clinical 1.5T and 3T Philips, a research-dedicated Philips 3T, a 7T preclinical Bruker MRI, microCT, microPET, and optical imaging scanners. The Barrow Neuroimaging Innovation Center has a long-standing tradition of developing new imaging technologies and bringing them to market. To facilitate this, we have established strong collaboration with Philips Healthcare, which ensures that the novel imaging methods developed at BNI are translated into product sequences for widespread dissemination. The BNI is also a major hub for neuroscience research and a wide range of neurology subspecialties. In support of this effort, the Barrow Neurological Foundation provides robust philanthropic support exceeding $18M/year, all of which benefits patient care, research, and education at BNI.

Phoenix is the 6th largest metropolitan in the United States and the 2nd fastest growing city. Phoenix is a beautiful place to live and work, boasting more days of sunshine and a lower cost of living than most comparable cities. A rich culture can be found in Phoenix, including theatre, concerts, museums, sports, and great food. With a moderate climate most of the year, many Phoenicians enjoy an active lifestyle of hiking, cycling, rock climbing, swimming, and golf.

Interested applicants should send a current CV and the names of three references to Richard Dortch, Ph.D. (Tel: (602) 406-3731 Richard.Dortch@barrowneuro.org) and/or Zhiqiang Li, Ph.D. (Tel: (602) 406-2641 Zhiqiang.Li@barrowneuro.org).