A postdoctoral fellow position is available in the Department of Neurology, Stroke Division of the University of Texas Health Science Center at Houston. We are looking for a highly self-motivated individual with a recent PhD degree in medical physics, biomedical physics, biomedical engineering, computer science, or related discipline.

The stroke program at UT-HEALTH has been leading research in stroke and intracerebral hemorrhage for over 20 years. We are looking to recruit a post-doctoral fellow or research assistant/associate into the neuroimaging section in the stroke division to conduct cutting edge studies in acute stroke, brain hemorrhage, and neuro-recovery, involving novel MRI sequences. Our program has launched the first clinical trials testing stem cells in stroke patients as well as the first trials to test medical therapies to promote clean-up of blood after brain hemorrhage. Eligible candidates should have the appropriate background to assess the effects of these interventions on grey and white matter changes in stroke.

Skills should include:

- Applications of computational MRI to brain imaging data (volumetry, DTI, perfusion, MRS, and DCE (dynamic contrast enhance) quantification.
- Image post-processing in stroke and brain hemorrhage, including sequences that involve diffusion tensor imaging; fiber tractography
- Automation of Organized Serial and Cross-sectional quantitative MRI Data
- Data analysis of the above mentioned techniques
- Development of new segmentation techniques for clinical neuroimaging studies.
- Quality Assurance
- Data management/organization/cleaning
- Applicants should have a working knowledge of human brain anatomy and basic pathophysiology and should be familiar with imaging processing software such as DTI studio, FSL, SPM8, Linux. Understanding how to use MATLAB is an advantage.

The successful applicant will be working in an active research department within the renowned Texas Medical Center (TMC) and gaining exposure to cutting-edge radiology technologies and translational studies. The city of Houston also offers comfortable lifestyle and ample career opportunities. Applicants should send a cover letter describing their background and research interests, a CV, and the contact information for three references to Doris Woodson (Doris.B.Woodson@uth.tmc.edu). Please only send complete application packages. For additional information, please visit: http://www.houstonstroke.com/

The University of Texas is an Equal Opportunity/Affirmative Action Employer. M/F/D/V. This is a security sensitive position and thereby subject to Texas Education Code § 51.215. A background check will be required for the final candidate.