Several postdoctoral research positions are available within the Vanderbilt University Institute of Imaging Science (VUIIS) in Nashville, TN.

Research projects of immediate interest include:

- Multiparametric studies of structural and functional changes in injured spinal cord in non-human primates and rodents.
- Multiparametric studies of structural and functional changes in injured spinal cord in human subjects post-trauma.
- Fundamental studies of the biophysical basis of resting state fMRI in non-human primate models.
- Development and applications of exchange-sensitive imaging based on T1rho and related phenomena.
- Development and applications of temporal diffusion spectroscopy using oscillating gradients and related advanced diffusion imaging methods.
- Electrophysiological recording of LFP and spiking activity in brain and spinal cord using multi-electrode arrays for correlations with BOLD fMRI.

Successful candidates will join investigators with strong track records in each of these areas. Experience in developing pulse sequences, imaging protocols and in vivo animal or human studies would be advantageous, and a recent PhD in a relevant area is essential.

VUIIS has a comprehensive array of facilities for human and animal imaging. The current MR facilities include Agilent/Varian systems at 4.7T and 9.4T, as well as Bruker systems at 7T and 15.2T and research-dedicated human scanners from Philips (2 at 3T and one 7T). Opportunities exist for multimodal imaging including correlative studies with PET, SPECT, US, CT, and optical imaging.

These positions are supported by NIH R01 awards but for US permanent records there may be additional opportunities for Training Grant (T32) support.

Nashville is a vibrant, dynamic and culturally diverse city with high quality but low costs of living!

Enquiries for additional information or applications including CV and names of 2 potential references should be addressed to john.gore@vanderbilt.edu.