

## **Job Title: Postdoctoral Fellow – MR Cancer Imaging**

### **Job Summary**

Applications are invited for a Postdoctoral Research Fellowship at the Vanderbilt University Institute of Imaging Science (VUIIS) in Nashville, TN. The successful candidate will join a team of investigators developing multi-parametric, quantitative MRI methods such as diffusion-weighted MRI and chemical exchange saturation transfer (CEST) for microstructural and molecular imaging of cancer, with an emphasis on assessment of tumor early response to treatment. The projects will primarily focus on small animal models, but opportunities also exist for translational studies in human subjects at both 3T and 7T (Philips).

### **About VUIIS**

The Vanderbilt University Institute of Imaging Science (VUIIS) is a trans-institutional operation comprised facilities and instruments for a variety of imaging modalities for both animal and human studies including MRI, PET, SPECT, ultrasound, X-ray and optical imaging, and correlative multimodal studies are possible. VUIIS has ~140 core personnel (including ~60 pre- and post-doctoral trainees), and collaborative studies across a wide range of disciplines. The current MR facilities include Agilent/Varian systems at 4.7T, 7T and 9.4T, as well as a Bruker horizontal 15.2T scanner. For more information, please visit <http://www.vuiis.vanderbilt.edu/>.

### **Qualifications**

Ph.D. in Physics, Biomedical Engineering, or a related field, with a strong theoretical and experimental background in MR physics and image processing/analysis is essential. Experience in pulse sequence programming, imaging protocol development and in vivo animal studies would be advantageous.

### **How to Apply**

Enquiries for additional information or applications including a cover letter, CV, and names of 2 potential references should be addressed to:

Junzhong Xu, Ph.D., Assistant Professor, [junzhong.xu@vanderbilt.edu](mailto:junzhong.xu@vanderbilt.edu), or

John C. Gore, Ph.D., Professor, [john.gore@vanderbilt.edu](mailto:john.gore@vanderbilt.edu).