

Multiple post-doctoral fellow positions available at Vanderbilt University Medical Center

The **Vanderbilt University Medical Center** is pleased to announce openings for multiple full-time post-doctoral fellow positions to carry out MRI (i) sequence design, (ii) data acquisition, or (iii) image processing responsibilities in collaboration with the Departments of Neurology, Neurosurgery, Oncology, Pediatrics, and the Institute of Imaging Science. The successful candidates will be centrally involved in analyzing imaging data from recent National Institutes of Science (NIH)-funded clinical research programs and collaborative industry partners and will work closely with clinicians, research faculty, and industry partners.

Candidate Requirements

Candidates should have a strong interest in translational medicine and a willingness to be involved in image acquisition and analysis for clinical trials (Phase 1-3). A degree in biomedical engineering, biophysics, computer science, neuroscience, or a related discipline with prior experience in MRI is preferred. Candidates must be able to meet eligibility requirements to work in the United States at the time of appointment and continue working legally. Projects for which positions are currently available are independent and focus on evaluating imaging biomarkers as they relate to:

- Lymphatic markers of viral persistence in HIV-infected patients
- Cognitive decline in patients with, and at risk for, ICU delirium
- Dopamine therapies in patients with movement disorders
- Cerebrovascular and lymphatic function in patients with movement disorders before and after boxing
- Surgical revascularization in patients with intracranial vasculopathies

A basic knowledge of MRI and intermediate knowledge of common image processing software such as Matlab, FSL, and Freesurfer is desired.

Resources and Environment



Vanderbilt is one of the top 15 medical schools in the United States with over \$400 million in annual federal funding. Vanderbilt's research environment is exceptionally strong and well positioned to support the training and promotion of both students and research staff, and available resources include the Office of Biomedical Research Education and Training, the Vanderbilt Institute for Clinical and Translational Research, and the Vanderbilt University Institute of Imaging Science (VUIIS). In particular, the VUIIS includes two Philips 3T scanners, one Philips 7T scanner, a human PET/CT system, and a full complement of functional MRI and physiological equipment. Additional opportunities are available owing to close collaborations with other institutes across the country, multi-site trials, and consortiums. Finally, Vanderbilt is located in Nashville, TN; Nashville enjoys a mild climate, has been consistently named as one of America's friendliest cities, is one of the 15 best cities for work and family (*Fortune* magazine), is the number one most popular domestic city for corporate relocations (*Expansion Management* magazine), and is one of the 25 cities most likely to have the country's highest job growth over the coming five years (*Forbes* magazine).

Application Instructions and Contact Information

To apply, contact **Manus J. Donahue** (mj.donahue@vumc.org ; <https://ww2.mc.vanderbilt.edu/donahuelab>) with a brief cover letter detailing your interest (including your past relevant research and work experiences), your current curriculum vitae, and contact information for three references.