

POSTDOCTORAL FELLOW POSITION IN MOTION CORRECTION

Vanderbilt University Medical Center VUIIS



Description

A postdoctoral fellow position is available at the **Vanderbilt University Institute of Imaging Science (VUIIS)** in Nashville, Tennessee, USA, in the area of motion correction in MRI. The fellow will lead the effort to develop new motion correction techniques for neuroimaging at 3 and 7 Tesla. The primary project will involve development and application of wireless NMR probe-based prospective motion correction for adult and pediatric brain imaging (<https://reporter.nih.gov/search/pfSbES9mS06wuRw0shRBkQ/project-details/11366015#description>). Other projects will include development of new techniques for retrospective motion correction as well as vendor neutral pulse sequences for motion correction.

Requirements

A Ph.D. in Biomedical/Electrical Engineering, Medical Physics or related field with a background in MRI physics and engineering is required. Experience with Philips Paradise pulse sequence programming and motion correction are highly desired. The candidate should have strong programming skills in Matlab, Python and/or C/C++. Experience in RF hardware development is a plus. The candidate should be highly motivated to pursue academic research and have solid project management and communication skills.

Application

Interested applicants should contact Saikat Sengupta at saikat.sengupta@vumc.org along with a CV and three references.

VUIIS, Vanderbilt and Nashville

The VUIIS is a premiere medical imaging research center with state-of-the-art 3 and 7 Tesla Philips MRI scanners dedicated to full time research. The VUIIS offers unmatched material resources and expertise for conducting basic and translational imaging research, developing collaborations and building a career in academia. For more information see <https://www.vumc.org/vuiis/welcome>

The Vanderbilt University Medical Center and Vanderbilt University are global hubs of learning, innovation and technology translation. VUMC and VU provide numerous resources to support postdoctoral fellows in their career pursuits and transition to independence. For more information see <https://www.vumc.org/radiology/innovation-and-clinical-research> <https://www.vanderbilt.edu/> and <https://medschool.vanderbilt.edu/bret/>

Nashville, Tennessee is the vibrant capital city of Tennessee and a global hub for the music industry, widely known as "Music City". Nashville features a thriving metropolitan area of over 2.15 million residents and is one of the fastest-growing regions in the United States. Nashville boasts a diverse economy rooted in healthcare, higher education, and tourism. Nashville offers a low cost of living with abundant nature, safe neighborhoods and excellent schools for young families.

Saikat Sengupta, Ph.D.

Research Associate Professor

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