

Postdoctoral Fellow
Development of Novel RF Hardware for MRI
NINDS/NIH, Bethesda Campus

The MRI Engineering Team (MRIEngT) of the Laboratory of Functional and Molecular Imaging (LFMI), National Institute of Neurological Disorders and Stroke, Division of Intramural Research, is currently seeking a highly motivated individual to join our group in developing state-of-the-art radiofrequency (RF) hardware for the next generation of MRI systems. The team plays a central role in designing and building innovative hardware solutions that enable advanced imaging applications across a wide range of research areas. The MRIEngT is in the NIH In Vivo NMR Center, a multi-institutional and multi-disciplinary facility with a wide variety of human and animal MRI scanners (with fields ranging from 0.064 T to 14 T) located in the NIH Clinical Center at NIH's main campus in Bethesda, Maryland.

Working within a dynamic, multi-institutional, and multidisciplinary environment, the MRIEngT supports a high demand for customized hardware to optimize complex and evolving MRI needs. There are numerous challenging projects on the development of novel RF transmit and receive hardware, with a focus on improving ultra-high field MRI of the human brain in vivo. In addition to the development of new technologies that improve brain imaging applications in LFMI, the MRIEngT works with scientists from other divisions and institutes to drive innovation and improve MRI applications across different magnetic field strengths.

Qualifications

- PhD in Electrical Engineering, Physics, Biomedical Engineering or a related field.
- Strong foundation in electronics and RF principles; practical experience with RF circuits and MRI coils is preferred.
- Strong problem-solving skills and ability to work independently on research projects.
- Proven ability to collaborate effectively in a multidisciplinary research environment.

If you would like to play an important part in exciting research for the benefit of human health, please apply by sending a cover letter describing your interests, CV and contact information for three referees to: natalia.gudino@nih.gov

Applications will be reviewed as they are received. DHHS and NIH are Equal Opportunity Employers. All employees are subject to a Federal Government background investigation.

For more information about this position please visit: <https://www.training.nih.gov/jobs/pd-070726/>