Electrical Engineer/RF Technician
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 searching for a highly motivated individual to join our team of scientists on their effort to develop state-of-the-art RF hardware for the next generation of MRI systems. The LFMI aims to develop imaging techniques that provide new anatomical, functional and molecular information about the brain. It is part of the NIH In Vivo NMR Center, a multi-institutional and multi-disciplinary facility with a wide range of human and animal MRI scanners (from 0.064 T to 14 T) located in the NIH Clinical Center at Bethesda main campus. In the center, there is a high demand of customized hardware to optimize various exciting imaging applications. There are numerous challenging projects on the development of novel MRI detectors, radiofrequency transmit and receive hardware mainly to enable ultra-high field MRI of the human brain in vivo. In addition to the development of new technologies that improve brain imaging applications in the LFMI, the MRIEngT works with scientist from other divisions and institutes to improve other MRI applications across different magnetic field strengths.

The Job
• Work under the supervision of staff in the MRIEngT to develop MRI hardware
• Perform bench testing and troubleshoot RF hardware
• Manage and maintain RF laboratory instrumentation and component supplies
• Document and routinely discuss progress on projects with the team
• Collection and analysis of bench data and work with MRIEngT members on the implementation of hardware in the MRI.

Your Skills
• Hands on experience on circuit assembly, testing and troubleshooting.
• Knowledgeable of electronics concepts and hands on experience on the RF bench (e.g., using network analyzer, RF signal generator, etc.)
• Experience on the generation of PCB and milling software tools
• Willingness to learn new concepts and skills
• Collaborative spirit

The salary is competitive and based on qualifications (electrical or electronics engineering bachelor’s or Master’s degree) and relevant laboratory course work or industrial experience. 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 with 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.

Laboratory Website