The Advanced MRI Section (AMRI) in the Intramural Research Program of the National Institute of Neurological Disorders and Stroke at the National Institutes of Health (NIH) in Bethesda, Maryland has an opening for a post-doctoral researcher.

The position relates to the development of unique methods and technology for high-field human MRI that builds on earlier work performed in the lab. One project involves the development of novel approaches for the analysis of fMRI and EEG-fMRI data acquired during overnight studies of human sleep. Other projects requiring further development are high-resolution imaging of iron and myelin distributions in the brain, high-resolution fMRI, optimization of receive arrays and acquisition pulse sequences, and implementation of motion-correction techniques.

As part of the NIH intramural program, AMRI has access to unique imaging and computational resources, including access to 3T and 7T MRI scanners, EEG and MEG systems, and a large (currently 107,000-core) computational cluster. It is also responsible for the development of an 11.7T human MRI scanner that is slated to be (re-) energized in 2021. AMRI has extensive expertise in state-of-the-art MRI imaging techniques and data analysis tools, and has a dedicated group of researchers including MRI physicists, biomedical engineers, and sleep neuroscientists.

Minimum Qualifications:
1) A PhD in physics, engineering, computer science or other related field by the time the appointment begins
2) Strong quantitative data analysis skills in advanced statistics, signal processing, and scientific computer programming
3) Ability to propose novel MRI research avenues and/or methods

Desirable Qualifications:
1) Experience in analyzing MRI/fMRI data

The start date is flexible. Applicants are requested to send curriculum vitae to Jeff Duyn, PhD at: jeff.duyn@nih.gov. The applicant is encouraged to include contact information for three references from mentors and/or colleagues.

For more information on the laboratory, see: https://amri.ninds.nih.gov
For more information on the NIH Postdoctoral Intramural Research Training Award Program, see: https://www.training.nih.gov/programs/postdoc_irp

The NIH is dedicated to building a diverse community in its training and employment programs.