Position Title: MRI Scientist

Position description:
An MRI Scientist position is offered for the Multiscale Imaging and Integrative Biophysics (MiiB) Unit within the National Institute on Aging (NIA), National Institutes of Health (NIH) in Baltimore, Maryland, in collaboration with the Section on Quantitative Imaging and Tissue Sciences (SQITS) of the Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD). This is a full-time position for a PhD level physicist or engineer with a background and interests in working with teams of postdoctoral Fellows, scientists and MRI specialists to develop and design novel MRI methods and imaging protocols, implement them ex- and in-vivo, manage data acquisition, and lead research to investigate neurodegeneration and neuroinflammation.

This position focuses on the development and application of advanced clinical diffusion-relaxation multidimensional MRI to investigate cellular processes that relate to function, microstructure, and chemical composition following exposure to traumatic brain injury (TBI) and in neurodegeneration. Training scientists new to MRI in pulse sequences, MR physics and data processing and interpretation is also an important role of this position.

Environment: MiiB and SQITS are part of the larger MRI research community at NIH, which has active programs in clinical and preclinical research. Among the available resources are preclinical 7T and 9.4T animal scanners; preclinical 7T, 9.4T, and 14T tissue scanners; two clinical 3T scanners; and a new 7T Siemens clinical scanner.

Qualifications:
- Ph.D. in a relevant engineering, physical science, computer science or mathematics discipline.
- First-hand experience with the acquisition and/or analysis of MRI data.
- Background in signal or image processing.
- Pulse-sequencing (Bruker/Siemens/Philips) – advantage.
- Evidence of excellent written and oral communication skills.
- Solid programming skills: including MATLAB, Python, and C/C++.

Compensation: Competitive salary is commensurate with experience.

How to Apply: Interested applicants should contact Dr. Dan Benjamini (dan.benjamini@nih.gov) and submit: (1) a curriculum vitae (CV), (2) a bibliography, (3) a cover letter with a brief description of his/her research interests and experiences, and (4) a list of at least three references, which includes their mailing addresses, telephone numbers, and e-mail addresses.

Position Location: Baltimore, Maryland
Application Deadline Date: December 31, 2023, or until filled.