Position Title: MR Scientist

Position description:
An MR Scientist position is offered for the Multiscale Imaging and Integrative Biophysics (MiiB) Unit within the National Institute on Aging (NIA) in Baltimore, Maryland. 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.

The MiiB Unit combines pre-clinical and clinical diffusion-relaxation multidimensional MRI with complementary histological methods to investigate cellular processes that relate to function, microstructure, and chemical composition in normative aging, mild cognitive impairment, and dementia. Training scientists new to MRI in pulse sequences, MR physics and data interpretation is also an important role of this position.

Environment: MiiB is part of the larger MRI research community at NIA, which has active programs in clinical and preclinical research. Among the available resources are preclinical 7T and 9.4T animal scanners, preclinical 9.4T tissue scanner, and clinical 3T and soon-to-be-installed 7T scanners. Additionally, two major ongoing research initiatives at the NIA, the Baltimore Longitudinal Study on Aging (BLSA) and the Genetic and Epigenetic Signatures of Translational Aging Laboratory Testing (GESTALT), present unique opportunities for multimodal integrated research.

Qualifications:
- Ph.D. in a relevant engineering, physical science, computer science or mathematics discipline.
- In addition to the educational requirements, a minimum of 3-5 years of related experience.
- First-hand experience with the acquisition and/or analysis of MRI data.
- First-hand experience in MRI physics, pulse sequence programming and image reconstruction algorithms.
- 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: September 30, 2022, or until filled.