MRI Associate Principal Scientist

We are looking for a highly-motivated, passionate, and innovative Associate Principal Scientist to join our diverse translational imaging biomarker team in West Point, PA. The successful candidate will lead the discovery, evaluation, development, and implementation of in vivo MRI biomarkers in small and large animal models to assist and advance drug discovery and development programs using MRI or MRS techniques. Applications may focus on infectious diseases and vaccines, pharmaceutical sciences, safety assessment, oncology, neuroscience, and/or cardiovascular.

Responsibilities include:

- Collaborate and with drug discovery teams to propose, design, evaluate, and implement novel in vivo MRI/S experiments to elucidate drug mechanism of action, to non-invasively and longitudinally measure disease burden, and to evaluate biomarker response to treatments
- Acquisition, analysis, and interpretation of complex imaging data
- Presentation of the results, communication of project impact to teams and department, and recommendations of next steps to project teams.
- Lead the evaluation and proposals of innovative imaging biomarkers; identify opportunities for imaging biomarkers by networking with various therapeutic areas onsite.

Job requirements:

A Ph.D. in Medical Physics, Biomedical Engineering, Neuroscience or related discipline utilizing MRI

Advanced expertise in small animal high field MRI

Demonstrated hands-on experience of designing in vivo imaging experiments, conducting protocol optimization, and data processing for quantitative measurements of physiological status or disease phenotypes

Excellent oral and written communication skills

Interpersonal skills necessary for working in a highly collaborative, cross-functional working environment.

Flexibility and the ability to adapt to a fast-paced research environment, and ability to work independently.

A published record of successful research.
Preferred skills:

Expertise in anesthetizing small animals and administration of compounds subcutaneously, intra-peritoneally, and intravenously.

2+ years of previous job experience related to pharmaceutical research

Practical expertise with MATLAB, Python, or related programming languages for image analysis

Experience with pulse sequence development

Knowledge of an additional imaging modality, such as CT, ultrasound, or PET

Please apply using the following link: