Molecular Imaging Scientist (Boston)

Role Summary/Purpose
As Molecular Imaging Scientist you would be responsible for the overall clinical and academic research engagement in the areas of PET/CT, PET/MR, and other imaging modalities in the molecular imaging (MI) space. Responsibilities include playing a leading role in the development of research project plans and in managing project execution, delivering high-impact research deliverables of value to the business and to our academic partners. As MI Scientist you would be responsible for exploring, developing and validating advanced molecular imaging applications, particularly in the development of new magnetic resonance acquisition, reconstruction, processing, and display techniques, in close collaboration with Massachusetts General Hospital, other clinical and academic research partners, as well as GE colleagues. Anticipated hiring date is in 3-12 months.

Essential Responsibilities
• Lead the definition and execution of MI research studies with collaborating institutions.
• Understand the MI research landscape (technology, clinical, and industry) to support the definition of collaborative projects designed to meet GE MI project/program needs, particularly in the oncological, neurological and cardiovascular care pathways.
• Design and develop applications for MI by combining MR acquisition, reconstruction, processing, and display techniques with corresponding PET techniques.
• Use broad expertise in MR physics and applications to help resolve quality issues.
• Evaluate and extend new concepts; further development of tools aiding in research execution; provide innovations which can be translated into product offerings.

Qualifications/Requirements
• Ph.D. (or M.Sc. with equivalent experience) in Physics, Biomedical Engineering, Electrical Engineering, or related field.
• Demonstrated record of innovation in MR physics research, development of new pulse sequences, and/or MR reconstruction methods.
• Solid understanding of molecular imaging technologies (esp. PET/CT or PET/MR) and clinical utility.
• 3+ years of experience in MI research, MR imaging research or closely related field
• Strong English language oral and written communication skills.
• Can-do attitude, flexible, intellectually curious, willing to work with cross-functional, global team.

Desired Characteristics
• Pulse sequence programming expertise in EPIC
• MR image reconstruction expertise in Orchestra
• Strong clinical and technical knowledge of cardiac applications
• Fluent knowledge of GE Healthcare product portfolio, particularly MI and/or MR
• Programming experience in C/C++ and Matlab
• Experience with academic and clinical research collaborations
• 2+ years of experience working with clinicians within a hospital environment

Are you at ISMRM and like to discuss?
Please send your CV and availability to:
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