Lead Scientist 2 - Physics_HC

Menlo Park

Job Description Summary
Are you looking to make a meaningful impact? Come join our team in Menlo Park and help shape the future of MR. The successful candidate will collaborate closely with academic partners in vibrant Silicon Valley and beyond to develop novel Body/Oncology applications and work with a dynamic team of GE scientists and engineers to design solutions that can be integrated into deployable product frameworks to serve patients around the world.

Job Description
Essential Responsibilities
- Combine knowledge of MRI, engineering, and clinical needs to design and develop new MR applications or capabilities towards automation & simplification of an MR exam, and improving the reliability from patient setup, data acquisition to image reconstruction, analysis and interpretation.
- GE technical lead on collaborative projects with academic partners to generate results that are in alignment with GE roadmap and goals.
- Develop concepts to prototypes and release to external GE collaborators following GE MR design controls.
- Work with a cross-functional team of engineers and scientists to translate promising prototypes into product and lead technical/clinical risk retirement towards new product introduction.
- Conduct original research resulting in patent applications and scientific publications
- Provide support for GE marketing effort such as GE MR Signa Pulse articles in collaboration with internal and external collaborators.
- Use broad expertise in MR and applications to help resolve quality issues both with product as well as prototype applications.
- Provide technical expertise and support for projects with internal and external collaborators

Basic Qualifications
- Master's Degree in an engineering or science field such as Electrical Engineering, Biomedical Engineering, Computer Science, Applied Math or Physics
- Strong knowledge of MR Physics and MR image reconstruction
- Demonstrated experience in MR research and development
- Substantial experience in software design, implementation, coding.
- Experience in C++ programming and Object-Oriented Programming Concepts
- Foundation in theories underlying machine learning and artificial intelligence techniques
- Outstanding writing, presentation, and communication skills.
- Strong collaboration skills and ability to thrive in a dynamic environment.
- Can-do attitude, flexible, intellectually curious, willing to work with cross-functional, global team

Desired Qualifications
- Ph.D. Degree in an engineering or science field such as Electrical Engineering, Biomedical Engineering, Computer Science, Applied Math or Physics.
- Track record of completed projects in MR pulse sequence design and MR image reconstruction
- Experience in developing machine learning packages with modern programming languages such as Python.
- Experience in application of Machine Learning & Artificial Intelligence to medical imaging.
- Experience in designing and implementing software solutions involving compute and memory intense problems.
- Familiarity with GE MR Systems and research on those systems
- Familiarity with GE EPIC Pulse Sequence Development environment and GE Orchestra Reconstruction environment.

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