Position Title: MR Development Scientist
Hiring Manager: Suchandrima Banerjee (suchandrima.banerjee@ge.com)

Locations: United States; California; Menlo Park, Other cities near the San Francisco bay area, Waukesha.

GE will only employ those who are legally authorized to work in the United States for this opening.

Role Summary: The role will be part of the MR Neuro Applications group reporting to the MR Collaboration & Development Team under Applications & Workflow segment. The successful candidate will explore, design and develop next-generation Neuro MRI applications and the underlying core technologies through close collaboration with global clinical and research partners and will translate these new imaging capabilities into product solutions for improved clinical care for patients around the world.

Essential Responsibilities:
1. GE technical lead on collaborative projects with academic partners to generate results that are in alignment with GE neuro MR roadmap and goals.
2. Conduct original research resulting in patent applications and scientific publications.
3. Provide technical expertise and support for projects with internal and external collaborators.
4. Combine knowledge of MRI, engineering, and clinical needs to design and develop new MR applications or capabilities towards imaging of the brain and spine, automation & simplification of an MR exam, and improving the reliability from patient setup, data acquisition to image analysis and interpretation.
5. Develop these features as prototypes and release to external GE collaborators following GE MR design controls.
6. 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.
7. Provide support for GE marketing effort such as GE MR Signa Pulse articles in collaboration with internal and external collaborators.
8. Use broad expertise in MR and applications to help resolve quality issues both with product as well as research prototypes.

Qualifications/Requirements:
1. Ph.D. Degree in an engineering or science field such as Electrical Engineering, Biomedical Engineering, Computer Science, Applied Math or Physics
2. Experience in MR research such as pulse sequence design or image reconstruction.
3. Strong background in Image reconstruction and data/image analysis.
4. Excellent coding skills and ability to quickly prototype in C++.
5. Willing to travel 10% of time.

Desired Characteristics:
1. Familiarity with GE MR Systems and research on those systems
2. Familiarity with GE EPIC Pulse Sequence Development environment and GE Orchestra Reconstruction environment.
3. Experience in application of Machine Learning & Artificial Intelligence to medical imaging.
4. Experience in Machine Learning development libraries such as TensorFlow and Keras and programming in Python.
5. Strong writing, presentation, and communication skills.
6. Strong collaboration skills and ability to thrive in a dynamic environment.
7. Can-do attitude, flexible, intellectually curious, willing to work with cross-functional, global team.

Additional Eligibility Qualifications:
1. GE will only employ those who are legally authorized to work in the United States for this opening. Any offer of employment is conditioned upon the successful completion of a background investigation and drug screen.

Please contact Suchandrima directly if you have questions or apply at www.ge.com/careers - Search by # 3079478

**Position Title:** MR Development Scientist  
**Locations:** United States; Texas; Houston  
**Hiring Manager:** Ersin Bayram (ersin.bayram@ge.com)  
**Role Summary:** The MR development scientist will be part of the MR Body & Oncology Applications group reporting to the MR Collaboration & Development Team under Applications & Workflow segment. The successful candidate will explore, design and develop next-generation Oncology MRI applications through close collaboration with global clinical and research partners and will translate these new imaging capabilities into product solutions for improved clinical care for patients around the world.

**Essential Responsibilities:**
1. GE technical lead on collaborative projects with academic partners to generate results that are in alignment with GE roadmap and goals.
2. 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 analysis and interpretation.
3. Develop these features as prototypes and release to external GE collaborators following GE MR design controls.
4. 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.
5. Conduct original research resulting in patent applications and scientific publications
6. Provide support for GE marketing effort such as GE MR Signa Pulse articles in collaboration with internal and external collaborators.
7. Use broad expertise in MR and applications to help resolve quality issues both with product as well as prototype applications.
8. Provide technical expertise and support for projects with internal and external collaborators.

**Qualifications/Requirements:**
1. Master’s Degree in an engineering or science field such as Electrical Engineering, Biomedical Engineering, Computer Science, Applied Math or Physics
2. Strong background in Image reconstruction and post-processing
3. Experience in MR research such as pulse sequence design or image reconstruction.
4. Substantial experience in software design, implementation and coding.
5. Excellent coding skills and ability to quickly prototype in C++ and Python
6. Outstanding writing, presentation, and communication skills.
7. Strong collaboration skills and ability to thrive in a dynamic environment.
8. Can-do attitude, flexible, intellectually curious, willing to work with cross-functional, global team.
9. Willing to travel 10% of time.

**Desired Characteristics:**
1. Ph.D. Degree in an engineering or science field such as Electrical Engineering, Biomedical Engineering, Computer Science, Applied Math or Physics.
2. Experience in advanced MR methods such as motion correction, faster imaging techniques, or non-cartesian imaging.
3. Experience in application of Machine Learning & Artificial Intelligence to medical imaging.
4. Experience in Machine Learning development libraries such as TensorFlow and Keras.
5. Experience in parallel programming and compute intense application development
6. Familiarity with GE MR Systems and research on those systems.
7. Familiarity with GE EPIC Pulse Sequence Development environment and GE Orchestra Reconstruction environment.

Additional Eligibility Qualifications
1. GE will only employ those who are legally authorized to work in the United States for this opening. Any offer of employment is conditioned upon the successful completion of a background investigation and drug screen.

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