GE Healthcare provides transformational medical technologies and services to meet the demand for increased access, enhanced quality and more affordable healthcare around the world. GE works on things that matter - great people and technologies taking on tough challenges. From medical imaging, software & IT, patient monitoring and diagnostics to drug discovery, biopharmaceutical manufacturing technologies and performance improvement solutions, GE Healthcare helps medical professionals deliver great healthcare to their patients.

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Role Summary/Purpose:

GE Healthcare Life Sciences is like no other Life Sciences company. This is a $5 billion business with 11,000 individuals in over 100 countries.

This opportunity is part of the GE Life Sciences Core Imaging R&D Entrepreneurial Post-Doctoral Program: an industrial two-year post-doctoral research, focusing on optimizing new magnetic resonance imaging (MRI) methods to enable clinical utility of the next generation of MR contrast agents in close collaboration with R&D academic, business and industrial collaboration partners.

This is a dynamic, new venture bringing scientific ability and entrepreneurial spirit to drive the development of world-changing technology.

Essential Responsibilities:

- You will lead innovation for new contrast related MR techniques, with the aim of developing commercial tools that drive improvements in clinical understanding and outcome.
- You will develop and design new methodological approaches for MR pulse sequences, medical image analysis, image processing in MR contrast related techniques.
- Processing and analysing MR data and working with the Imaging Technology team on best practices for data analysis.
- Build understanding of clinical needs and workflows; and develop mechanisms to recommend implementation & adoption by GE Healthcare.
- Collaborate with academic and business partners to translate research developments into potential commercially available MR products.
- Complete all planned Quality & Compliance training within the defined deadlines
- Identify and report any quality or compliance concerns and take immediate corrective action as required.
- Ensure compliance/closure of Regulatory and Quality requirements before approving Design Outputs/Program Deliverables.
- Occasionally you will travel to GE Healthcare’s collaborative sites attend workshops and present on results obtained.

Qualifications/Requirements:

- You should have a PhD in a relevant science discipline such as Medical Physics, Physics, Biomedical Engineering, Software Engineering or Computer Science.
- Strong background in MR physics and expertise in MR imaging techniques.
- Software experience with programming languages (MatLab, Freesurfer, C++, Python, IDL etc.).
- Proven experience in analysing medical images, and familiarity with routine clinical MRI practice.
- Understanding of MR tissue contrast mechanisms and efficacy of novel paramagnetic contrast agents using experimental and simulation approaches.
- Excellent communication, influencing skills and ability to gain buy-in for initiatives
Applications from job seekers who require sponsorship to work in the UK are welcome and will be considered alongside all other applications. However, non-EU/EEA candidates may not be appointed to a post if a suitably qualified, experienced and skilled EU/EEA candidate is available to take up the post, as the employing body is unlikely, in these circumstances, to satisfy the Resident Labour Market Test. For further information please visit the UK Border Agency website http://www.ukba.homeoffice.gov.uk/visas-immigration/working

**Desired Characteristics:**

- Used to data analysis packages (Analyze, JMP, R, etc.) and pattern recognition/machine learning methods.
- Experience in MR pulse sequence programming (ideally on GE scanners) and protocol adaption on clinical MR scanners, as well as paramagnetic MR contrast media development.
- Familiarity with commercializing scientific ideas and/or previous industrial experience and communication with clinical/ healthcare experts.
- Demonstrated ability to work in a collaborative, matrixed, and customer focused environment; and experience with cross-site research collaborations.