GE HealthCare Medical Imaging Segment located at Tirat Carmel is looking for Algorithm Engineer to join our Image Quality – Physics team

Algorithms Engineer

Job Description Summary

The Medical Imaging Algorithms Engineer is responsible of conception, design, implementation and optimization of tomographic reconstruction and medical imaging algorithms and simulation tools aimed at providing visual images supporting clinical decision-making.

Roles and Responsibilities

- Design and development of medical imaging algorithms and reconstruction tools in MATLAB/Python environment.
- Design and development of imaging simulation tools.
- Work with Applications team to understand user-derived requirements, clinical applications and image quality requirements.
- Work with Physics and System teams to define and optimize system design and understand system constraints.
- Work with Image Generation and SW team to transfer proven and validated algorithms to SW implementation.
- Optimize algorithms to meet performance requirements and use of memory resources.
- Manage and optimize system design parameters that are critical to image quality.
- Manage and optimize image reconstruction parameters that are critical to image quality.
- Define and support EQ in design and execution of system testing plans.
- Assist system engineering in definition and management of system-level error budgets.
- Support field investigations – upon need.
- Data and configuration management and control of generated code.
- Initiate technical reviews of work done.
- Get to know trends and new technologies.

Required Qualifications

- MSc/PhD degree in Biomedical Engineering, Life Sciences, Electrical Engineering, Computer Science/Engineering, Software Engineering, Physics, Mathematics, Chemistry or related field in engineering/science.
- At least 3 years of work experience.
- Experience in MATLAB development.
- Background in medical imaging / image-processing.

Desired Characteristics

- Experience in medical imaging algorithms development.
- Experience in Machine Learning / Deep Learning techniques.
- Experience in Python.
- Experience in C/C++.

Please contact: Levy, Moshe (GE HealthCare) <moshe.levy@ge.com>