C-RAD is a global medical device company with head quarter in Uppsala. We develop, produce and sell innovative solutions to healthcare customers. The focus is on patient positioning, monitoring and imaging within radiation therapy. We are market leader in the field of optical patient positioning. C-RAD is a stock listed company at NASDAQ OMX Nordic Exchange. C-RAD group consists of three daughter companies in Sweden and sales offices in the USA, Germany, France and China. C-RAD is ISO 13485 certified.

We are currently looking for a system engineer with focus on to study, optimize and evaluate an optical 3D scanner for use with MR-Linac.

Medical technology systems engineer

The MR-Linac presents a challenging environment for the C-RAD optical 3D surface scanner, in terms of a strong magnetic field as well as an RF electromagnetic field. The long bore makes patient surface scanning difficult and additionally the patient is partly covered by RF coils.

One objective for this role is to evaluate MR compatibility for an existing C-RAD 3d scanner product and to propose and evaluate necessary adjustments.

Another objective is to assess and evaluate the performance of an existing 3D scanner product to be used in situations, where the optical view is obscured by RF coils and the geometry of the long bore of the MR-Linac.

Areas to be addressed

- Optical considerations, in terms of field of view and wave length restrictions
- Dedicated projector and camera hardware
- Electrical power conditioning and distribution
- High speed digital communication
- EMC considerations
- Cooling considerations

Responsibilities

- Study and evaluate MR compatibility of an existing 3D scanner product.
- Collaborate with software and hardware engineers, marketing department, and clinical application specialists in defining and documenting system design, operational scenarios and workflows.

- Establish and manage key technical performance indicators of the system.
- Identify, analyze and define requirements for a System Requirements Specification.
- Collaborate with software and hardware engineers to develop system test strategy and test methods, including trend analysis for failing parts prediction.

Qualifications

- Master's degree in Physics, Systems Engineering, Computer Engineering, or a related Medical domain degree and at least 3 years of design and development in a highly-regulated industry, although experience in the medical device field is a plus.
- Knowledge of systems and software engineering processes for the development of complex systems including System and Software Architecture, System Analysis, System Integration and Test, and Requirements Management. Experience in system modeling is a plus.
- Working level knowledge of system and interface specifications.
- Experience in interpreting medical regulations for new product design of software applications.
- Understanding of control systems, electronics, and computer networks.
- Excellent troubleshooting and problem-solving skills.
- Strong communication skills.
- A motivated, organized, and collaborative work style.
- Fluent in Swedish or English is mandatory, other language skills are an advantage.

Primary location
Uppsala, Sweden

If this job is interesting for you, please send us your application. Interviews are being held on a current basis, please send in your application as soon as possible.

Johan Bostedt
R&D Manager

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