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 versatile and practical system engineer with focus on hardware design and optimization.

Medtech systems engineer

This role combines working with challenging tasks both on C-RAD's 3D scanner products as well as the C-RAD GEMini imaging and portal dosimetry flat panel detector.

The work spans from practical tasks such as assembling and testing of prototypes to analytical problem solving and product optimizations.

C-RAD's optical 3D surface scanner technology will be evaluated and adapted for use with the MR linac. This presents new challenges, optical as well as magnetic field strength.

C-RAD's flat panel detector GEMini is transiting from being a research project to a clinically accepted product. In collaboration with clinical and industrial partners, work is being performed on integrating the GEMini into radiation therapy treatment systems.

Work will be performed on both hardware and software interfaces.

Areas to be addressed

- 3D-scanner optical considerations, in terms of field of view and wave length restrictions
- Dedicated projector and camera hardware for the 3D-scanner
- Electrical power conditioning and distribution
- High speed digital communication
- EMC considerations
- Cooling considerations
- MeV Photon interactions in the GEMini sensor
- Radiation hardness (tolerance to radiation)
- Product documentation following medical product regulations and standards
- System level assembly and testing

- Clinical testing
- Design of experiments

Responsibilities

- 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.
- Study and evaluate MR compatibility of an existing 3D scanner product.

Qualifications

- Master's degree in Physics, Electrical 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, hardware 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.
- Interest and practical skills in mechanical and electronics assembly, including work involving high precision parts.
- 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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