

Software Architect

Medical Imaging Equipment

2/3 of the world population have still no access to medical imaging yet...

Do you have the passion, determination and enthusiasm for being part of the solution?

Do you have the unique combination of leadership and expertise required for this challenging position, including outstanding skills in medical products development, industrialization and quality management?

For its product development team, which designs and industrializes an extremely robust, cost-effective and digital medical X-ray system, Pristem is looking for highly motivated, proactive and talented engineers with a good track record in the industry of medical devices.

Position Description

The **Medical Imaging Software Architect** will define and design the application software architecture and ensure its implementation with respect to medical devices standard-compliant processes.

He/She will ensure the technical lead for the development of a comprehensive software solution including all the functions for controlling the real-time image acquisition system, for the processing, storage and communication of medical data, and for integration with 3rd party systems.

As a member of the software engineering team, the Medical Imaging Software Architect will report directly to the CTO.

Main Tasks and Responsibilities

- Design the application software **microservices architecture** and related technologies based on previous work.
- Determine the competencies required to ensure the software development and participate to the selection and organization of partners and collaborators covering those competencies.
- Identify, qualify and integrate **3rd party software components**, required for medical images and data processing.
- Define and ensure the correct use of the **tools and processes** required for efficient software development.
- Design, develop, test and maintain the application software architecture focusing on **code maintainability, reliability and quality** with respect to the **SW requirements** and **medical standards** (IEC 62304).
- Design and build strong **testing tools** to ensure sufficient testing coverage and the overall reliability and security of the solution.
- Ensure technical Lead for the **development of application software** in collaboration with internal team and partners.
- Lead and participate in code reviews and pair programming sessions.
- Ensure with the system engineering manager the compliance between the software development work and the rest of the product system.

Required Skills and Qualifications

- Master’s Degree in Software Engineering with 5+ years’ experience as a software architect (full stack) preferably in the medical imaging industry
- Successful track record in complex software products development, from requirements definition to test and validation
- Excellent software design and documentation capabilities
- Expertise in **medical devices SW certification** including integration of COTS, open source or SOUP modules
- Relevant experiences in software development and modular architecture design (UML, SOA, design patterns)
- Experience with **microservices architecture**, JVM, Java, Javascript, HTTP server, RESTful API, Vert.X, Node.JS
- Knowledge of **healthcare related standards** is highly desired (IHE, HL7, DICOM, etc.)
- Experience in **e-Health solutions** and PACS/VNA/RIS/HIS development and integration is a plus
- Used to work in an **agile** and cross-functional team
- Ability to interact with a wide variety of stakeholders and users
- Experience in technical lead of internal and external teams
- Open-minded, proactive, persistent, result-driven and able to work under pressure in changing environments (startup)
- Able to produce **outstanding quality and reliability** required for our solutions to work durably in the most challenging contexts

Languages: French and English proficiency

We offer: A multicultural, open-minded, highly dynamic and stimulating work environment
A disruptive approach combining best-in-class medical technologies with heavy-duty industrial quality
An opportunity to address a global health issue in a practical and effective manner

Activity Rate: 100%

Duration: permanent contract

Start Date: as soon as possible

Work place: Pristem Switzerland

How to apply: Send email applications including motivation letter, resume and work certificates/references to careers@pristem.com

More information: www.pristem.com