

## ELECTRONIC DEVELOPMENT LEADER

### 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 primary mission of the **electronic development leader** is to ensure the entire development of all *electronic circuits and related firmware* in our medical X-ray equipment.

For that purpose, the electronic development leader is responsible for the specification, design, manufacturing, verification, validation and medical certification of all *electronic developments and firmware*. He/She shall manage all electronic development activities and resources, choose the tools and establish the appropriate partnerships to achieve the quality, planning and budget objectives with the right balance between in-house and subcontracted design. He/She shall constantly interact with the system engineering manager, project manager, mechanic, software, quality and manufacturing engineering teams to optimize the integration of his work into the complete system.

These responsibilities shall be conducted in accordance with the objectives and directives defined by the CTO to which he/she reports, the requirements defined with the system engineering manager, as well as the quality and regulatory constraints under control of the quality manager.

### Main Tasks and Responsibilities

- Review and complete the **electronic architecture of the whole product**, specify the related modules to comply with the system requirements and the needs of potential users and customers.
- Be accountable for **the resources and the plan** required during the full development of all electronic modules.
- Identify and participate to the selection of partners and collaborators involved in electronic developments.
- Manage R&D and industrial partners and ensure that they deliver according to the requirements specification and the budget in a timely manner.
- Define and ensure the proper usage of the **tools and processes** required for efficient electronic development (i.e. design, documentation, test and verification).
- Lead the development of the electronic circuits and related firmware:
  - split development work between himself, internal team and partners;
  - follow execution and deliverables according to project objectives (performance, timelines and costs);
  - ensure the regular integration and testing of the full electronic circuits and firmware;
  - ensure with the system engineering manager the compliance between the electronic development work and the rest of the overall product.
- Ensure the electronic development, the verification and validation according to **active medical devices standards**, as well as **robustness objectives** and **environmental constraints**.
- Assess the robustness and durability of the electronic parts by calculation, simulation and test; develop improvement plans to achieve outstanding **performance** and **reliability** in challenging environments.
- Continuously estimate all the **costs** (components purchasing, manufacturing and assembly) with regards to the costs objectives, and develop a roadmap to reduce the overall cost with improved designs and processes.
- Define the means for **testing and manufacturing** of all electronic modules and firmware.
- Ensure the technical activity related to the **life cycle management** of the electronic boards (change requests, obsolescence management, quality improvements....).

### Required Skills and Qualifications

- Minimum 10 years of experience in leading general electronic developments and projects for high quality-price ratio and extreme reliability products
- Strong experience in highly regulated industry with successful track records in CE product marking (CE mark of active medical device is a plus)
- Proven experience in uProcessor (and possibly FPGA) architecture selection and programming
- Experience in leading teams of internal and external partners having a large variety of electronic skills (high voltage, high power, battery powered, sensors, camera systems, EMC, reliability testing, PCB manufacturing and testing, etc.)
- Ability in working in a team addressing complex systems including electronic, imaging, sensing, software and mechanic development
- Experience in leading design reviews, FMEA and Reliability analysis
- Experience in product life cycle management of electronic components and systems
- 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](mailto:careers@pristem.com)

**More information:** [www.pristem.com](http://www.pristem.com)