
MECHANIC 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 **mechanic development leader** is to ensure the entire development of all *mechanical components, systems and actuators* in our medical X-ray equipment.

For that purpose, the mechanic development leader is responsible for the specification, design, manufacturing, verification, validation, and medical certification of all mechanical and actuation parts. He/She shall manage all mechanical developments 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 shall constantly interact with the system engineering manager, the project manager, as well as the electronic, 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 and the system engineering manager, the quality and regulatory constraints as defined by the quality manager, and the company's Core Values and Guiding Principles (*Pristem Charter of Ethics and Deontology*).

He/She will report directly to the Chief Technology Officer (CTO).

Main tasks & responsibilities

- Review and complete the **mechanical 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 mechanical modules.
- Identify and participate to the selection of partners and collaborators involved in mechanic development.

- Define and ensure the proper usage of the **tools and processes** required for efficient mechanic development (i.e. design, documentation, test and verification).
- Lead the development of the mechanical and actuation parts:
 - 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 mechanical and actuation parts.
 - Ensure with the system engineering manager the compliance between the mechanic development work and the rest of the whole product.
- Ensure the mechanic development, the verification and validation according to **active medical devices standards**, as well as **robustness objectives**, **environmental constraints** and **human factors** (usability & ergonomics)
- Assess the robustness and durability of the mechanical 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 mechanical and actuation parts.
- Ensure the technical activity related to the **life cycle management** of the mechanical and actuation parts (change requests, obsolescence management, quality improvements....).

Required Skills & Qualifications

- Minimum 10 years of experience in leading general mechanic development and projects for high quality-price ratio and extreme reliability products
- Strong experience in highly regulated industry with strong process-based approach (experience in medical device industry is a plus)
- Proven experience in complex mechanical products development with reliable and durable movement and braking mechanism.
- Skills in mechanical design, CAD, tolerance analysis, design for assembly/mass production and design for reliability and cost
- Strong technical knowledge in metal parts manufacturing processes
- Experience in leading teams of internal and external partners
- Ability in working in a team addressing complex systems including mechanic, electronic, imaging and sensing and software development
- Experience in product life cycle management of mechanical and actuation parts
- 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