Job title: System Architect – Mid level position

About ShanX Medtech BV

ShanX Medtech BV (SXM, NL) is a dynamic young company dedicated to revolutionizing healthcare through innovative diagnostic tools. Our journey began with a deeply personal experience—the founder's mother's near-fatal struggle with a poorly treated bacterial infection. This ignited our mission to transform infection management, propelling us to develop pioneering solutions that prevent unnecessary suffering.

At SXM, impact is paramount. We're proud to introduce KAIROS™ IVD, our groundbreaking rapid antibiotic susceptibility testing device, poised to redefine how bacterial infections are treated. Our goal is clear: to equip healthcare professionals with the means to make informed treatment decisions swiftly and accurately. Through our innovative solutions, we're combating antibiotic resistance, enhancing patient outcomes, and saving lives.

Join us in shaping the future of healthcare, where every moment is vital in the fight against bacterial infections. We're seeking a motivated System Architect to join our team and contribute to the development of this crucial diagnostic device. This is an exceptional opportunity to join us in our early stages and play a pivotal role in our future success.

About the role

As a system architect at SXM you will be responsible for designing the blueprint of the KAIROS™ systems, ensuring they meet the requirements of stakeholders, regulatory standards, and industry best practices while driving innovation and advancing the company's mission in improving healthcare outcomes.

Responsibilities

Your responsibilities include but are not limited to:

System Requirements & architecture: Ownership of the system requirements and translating user requirements to device input Defining the overall architecture of the full KAIROS™ systems, including hardware, software, interfaces, connectivity and data (analysis) components.

System Design & Integration: Ensuring seamless integration of various subsystems, modules, and components to create a cohesive and efficient diagnostic platform.

Performance Optimization: Identifying opportunities to enhance system performance, scalability, reliability, and efficiency through architectural improvements.

Risk Management: Assessing safety hazards and mitigating technical risks associated with system use and architecture, ensuring compliance with regulatory standards and quality requirements.

Collaboration: Working closely with cross-functional teams at development partners including product management, R&D, engineering, manufacturing, quality assurance, and regulatory affairs to ensure alignment and successful implementation of system architecture.

Documentation: Documenting system requirements, architecture design, risk management, specifications, and technical decisions to facilitate communication and knowledge transfer within the organization.

Continuous Improvement: Participating in continuous improvement efforts to enhance the overall quality, functionality, and performance of diagnostic systems.

Required Qualifications

- PhD or master's degree in computer science, Mechanical Engineering, Software Engineering, Electrical Engineering, or a related field
- 3-5 years' experience in a medtech or similar field, with a preference for experience in in-vitro diagnostic development

- Technical skills such as proficiency in system architecture design, including hardware, software, and data components.
- Strong understanding of diagnostic system requirements, including regulatory and quality standards (FDA & ISO).
- Understanding of regulatory requirements and experience in designing systems compliant with FDA and/or CE regulations.
- Experience with diagnostic instrumentation and/or medical device development.
- Knowledge of relevant programming languages, such as C++, Java, or Python.
- Familiarity with software development methodologies, such as Scaled Agile or Scrum.
- Excellent writing and communication skills to collaborate effectively with cross-functional teams, including product management, R&D, engineering, quality assurance, and regulatory affairs.
- Well organised with an analytical mindset

Preferred Qualifications

- Strong problem-solving skills to address technical challenges and optimize system performance.
- Affinity with project management and the ability to prioritize tasks and meet deadlines.
- Experience in a small company environment.
- A passion for innovation and staying updated with emerging technologies and industry trends in in vitro diagnostics and medical devices.

Perks and benefits

- Competitive compensation and benefits package
- Participation in equity options
- Access to professional development opportunities for career growth and advancement, including training resources.
- Flexible schedule and work arrangements

- Dynamic and collaborative work environment

Important Dates: The application period for this position will remain open until June 15th. Interviews will be conducted during the final two weeks of June. The anticipated start date is July 1st, 2024, with flexibility for a later start date by mutual agreement.

Position Details: This is a part-time contract for 32 hours per week, extending over three years, with the possibility of extension and potential for an increased work week.

Location: The position will be in Nijmegen, with regular commuting to Eindhoven and occasional international travel.

Disclaimer: At SXM, we're dedicated to equality and diversity, welcoming individuals from all backgrounds.

Position reference name: SXMRef001-2024_System Architect

Interested?

Ready to Make Your Mark?

If you're ready to drive meaningful impact and be part of a team that's changing the game, we want to hear from you! Apply now by sending your resume and a cover letter detailing why you're the perfect fit for the role to info@shanxmedtech.nl.