



System Engineer – Help Build the Medical Technology of Tomorrow

📍 Eindhoven | ⚙️ System Engineering | Medical High-Tech

At Xyall, we're shaping the future of medical diagnostics.

We develop innovative solutions that help pathology labs worldwide work faster, more accurately, and more safely. As a **System Engineer** at Xyall, you'll play a key role in defining, integrating, and validating the complex systems that drive our advanced medical instruments. You'll work closely with R&D, software, and electronics teams to ensure seamless system performance and compliance with medical standards like ISO 13485 and FDA 21 CFR 820. You'll be working full-time, on site in Eindhoven.

At Xyall, you won't just work on cutting-edge technology – you'll make a real impact on healthcare.

Your Responsibilities

- Knowledge of system-level architecture and requirements for our medical devices.
- Ensure optimal integration of software, electronics, mechanics, and optics.
- Translate product requirements into functional system specifications.
- Coordinate and conduct system validation and verification activities.
- Manage interfaces across disciplines to ensure end-to-end system performance.
- Safeguard compliance with medical regulations (ISO 13485, FDA 21 CFR 820).
- Identify technical risks and lead troubleshooting during development and testing.
- Support assembly and industrialization of the medical equipment.

What You Bring

- Master's degree in Mechanical- , Mechatronics- , Electrical Engineering, Physics or a related field.
 - 5+ years of experience in system engineering or system integration, preferably in medical devices or other regulated industries.
 - Experiences with test engineering, testing and calibration of high tech equipment.
 - Affinity with multi-disciplinary development (software, hardware, optics).
 - Experience with systems engineering methodologies (e.g., V-model, MBSE).
 - Knowledge of quality standards such as ISO 13485 and risk management (ISO 14971).
 - Strong communication skills in English (Dutch is a plus).
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You Are...

- Technically broad – You understand the interplay between disciplines.
 - Hands on mentality – willing to work on both practical and theoretical subjects.
 - Structured & analytical – You oversee complexity and make it manageable.
 - Quality-minded – You ensure systems are robust, reliable, and compliant.
 - A team player – You align easily with engineers from various domains.
 - Solution-driven – You anticipate issues and navigate them proactively.
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Why Work at Xyall?

Xyall is a fast-growing scale-up based in Eindhoven, with a mission to make pathology more accessible and efficient around the globe. Our technology supports medical labs in their crucial diagnostic work and is used daily to improve patient care. Working at Xyall means joining a multidisciplinary, impact-driven team and helping bring high-tech innovation to healthcare.

 **Ready to turn complex systems into life-saving solutions? Apply now or contact us for more information.**