

Hexagon's Infrastructure & Geospatial Business Area combines measurement, positioning, and mapping technologies to help geodata-dependent industries capture, measure, and visualise the physical world – turning data into actionable insights for better decisions and greater efficiency.

Software Test Architect (AI Enablement) for Embedded Systems (f/m/d)

Heerbrugg **100%**

This appeals to you

- Defining and driving a testing and quality strategy across the full embedded stack — from the OS layer and sensor integration up through the application-level C++ software and the APIs it exposes — across our instrument platforms.
- Actively contributing to the development and implementation of test strategies, automation concepts, and quality processes.
- Proactively driving AI enablement as a cross-cutting principle across all responsibilities.
- Championing an automation-first approach by designing automation concepts and quality frameworks seamlessly integrated into CI/CD pipelines.
- Leading the design, setup, and continuous improvement of automated test infrastructure, including the ongoing maintenance of Hardware-in-the-Loop (HIL) test benches.
- Coaching and supporting the development teams in the implementation of the strategy for our software products to cover all quality aspects, such as

This is you

- Strong software development skills in Python or another high-level programming language; experience with C#/.NET or C++ is a plus.
- Strong expertise in testing methodologies, automation frameworks, CI/CD integration, and quality engineering practices.
- Experience in test automation for embedded systems, such as Yocto-based platforms or RTOS environments such as Zephyr.
- Experience in designing and maintaining a lab infrastructure that enables local and remote access to embedded systems.
- Experience in API or contract-based automated testing methodologies.
- Experience with AI-assisted testing, including automated test generation, self-healing automation, and intelligent test optimization.
- Familiarity with AI driven quality analytics, predictive defect detection, and AI-supported defect analysis.
- Knowledge of agentic AI engineering for QA workflows, including evaluation and adoption of

performance & reliability.
- Close collaboration with development teams, product management and R&D management.
- Reporting on test results (incl. linkage to requirements and to test coverage) and further SW QA and business related KPI's.
- Ensuring that the architecture of test suites and frameworks remains robust, scalable, and fit for purpose.

modern testing tools.
- High communication skills are mandatory and critical for success.
- Very open personality, driving things, self-organized, pro-active, reliable, having a strong attitude to "Getting things done".

We offer you

- Flexible annual working hours based on a 40-hour week
- 25–30 days of vacation, depending on age
- Hybrid working model
- Bonus system and extra-mandatory pension fund contributions
- Opportunities for personal and professional development
- Relocation support
- Employee discounts and various company events
- International working environment with collaboration across teams and countries

Here you can find more information about us as an employer.

About Us

At Hexagon, we are the global leader in measurement technologies. Our precision measurement, positioning, and autonomous solutions transform the world's most vital industries – providing the confidence that customers rely on to build, navigate, and innovate.

From microns to Mars, we drive productivity, quality, safety, and sustainability where it matters most. We help industries operate smarter, reduce risk, and reach new levels of efficiency.

Looking ahead, we are advancing our customers towards a future of true autonomy – enabling them to meet sustainability and demographic challenges with confidence.

With approximately 16,000 employees across 50 countries, Hexagon combines global scale, expertise, and innovation to make a lasting impact across some of the world's most vital industries.

Learn more at hexagon.com.

Contact

If you have any questions, please do not hesitate to contact Dominik Kung, Talent Acquisition Partner.

APPLY NOW

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