

Established in 1914, MSA is the global leader in the development, manufacture and supply of safety products. Many products integrate a combination of electronics, mechanical systems and advanced materials to protect users against hazardous or life-threatening situations. The company's line of products is used around the world in a broad range of industries, including the fire service, the oil, gas and petrochemical industry, construction, mining and utilities, as well as the military. Principal products include self-contained breathing apparatus, fixed gas and flame detection systems, handheld gas detection instruments, head protection products, fall protection devices and thermal imaging cameras. MSA, based north of Pittsburgh in Cranberry Township, Pennsylvania has 42 international locations.

We provide our customers with outstanding purchasing experience with our innovative new developments, and provide occupational and system protection that complies with the strictest of safety requirements. It is gratifying to lead the way as a source of inspiration. More than 5,000 employees worldwide are already doing this.

We are currently looking for our dept. R & D Portable Gas Detection:

## Senior Staff Engineer Embedded Software (f/m)

In this position you will be responsible for verification, validation and design of software within new product development projects for portable gas detection and sensors. You will report to the Engineering Manager for portable gas detection.

### Your duties include:

- Verification and validation of software and systems within new product development.
- Technical leadership for testing efforts.
- Reviews of software requirements, software architecture and code.
- Participate in cross-functional project teams and work closely with software developers throughout the product development life cycle.
- Apply verification methods and processes during every phase of development so that the necessary robustness and quality of the products is ensured while being delivered on-time.
- Development of hardware-related software/firmware for embedded systems, specifically for portable gas detection.

### You will have the following qualifications:

- Bachelor's degree in Computer Science, Software Engineering or similar; Master's degree preferred.
- Relevant professional experience in the mentioned areas of responsibility and duties.
- Proficiency in C/C++ especially in the embedded field and experience with scripting languages (Python, Perl etc.).
- Experience with automated test frameworks such as VectorCast, CUnit etc.
- Experience with all phases of testing (Unit, Integration, System, Acceptance) and different test techniques such as white box, black box, regression testing.
- Experience with hardware-in-the-loop testing, debug hardware and other tools such as oscilloscopes and logic analyzers.
- Experience with communication protocols such as Bluetooth, SPI, I<sup>2</sup>C, USB etc.
- Experience with version control tools and (Git, Subversion) and collaboration systems (Atlassian Suite: Jira, Confluence, Fisheye, Bamboo).
- Ability to generate test cases based on product requirements and use cases.
- Analytical thinking skills.
- Good verbal and written English language skills.
- High degree of initiative, customer and quality orientation, ability to work in teams, resilience, as well as communication skills.
- Willingness to travel.

### We provide impetus because life is precious, and offer you:

- A wide range of duties in an international and inter-disciplinary development team.
- Varied scope of work that can be carried out independently.
- Personal and task-oriented development opportunities.
- A pleasant working climate in a dynamic and motivated environment.

A comprehensive training is provided.

Please submit your application, specifying your salary requirements and your earliest start date, preferably by e-mail to:

**HR.de@MSAsafety.com**

**MSA AUER GmbH**

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