



**Your expertise. For the safety solutions of tomorrow.**

**MSA development, production and sales of professional safety equipment and gas detection technology: We are „The Safety Company“. We have been developing products that save lives for over 100 years – from innovative harness systems to smart gas detection devices. Customers in 140 countries put their lives in our hands every day. Our more than 4,700 employees in 42 locations worldwide accordingly take on great responsibility. Together we pursue one objective: We make the lives of workers in action safer.**

For our teams in Poole (UK), Cranberry Township (US) or Berlin (Germany), we are looking for a highly skilled and motivated

## Senior Electronic Design Engineer, Senscient (m/f)

In this position, you are in charge of the development and support of the high performance electronics that are used in MSA Senscient's ELDS products. Your work will allow MSA Senscient to continue to develop and help ELDS product offerings to move forward.

### Your tasks on our team:

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- You design, develop, and test electronics for laser based gas detection equipment.
- You actively participate on cross-functional project teams in the development of new MSA products.
- You take the lead in producing comprehensive manufacturing packages to enable electronic designs to be built, tested and put into use. These packages will include circuit schematics, PCB artwork, BOMs, test specifications and test jigs/equipment.
- You collaborate with electrical, optical, mechanical, software test/validation and manufacturing engineers to ensure products are delivered on time, while meeting functional, performance and quality requirements.
- You review and assess the performance of the electronics in MSA Senscient's products on an ongoing basis, with a view to identifying any shortcomings or problems. You develop enhancements or fixes to address these shortcomings.
- You support Manufacturing and Customer Service on production or quality issues.

### Your profile: Expertise meets experience

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- You have experience in designing high performance analogue and digital electronics.
- You are experienced in designing low noise, low distortion, high bandwidth electronics.
- You know all about the design of small signal circuits as found in sensory instrumentation.
- You have past experience in modelling electronic circuits using PSpice (or similar).
- You have experience in schematic capture of circuit designs using Altium (or similar).
- You are experienced in interfacing analogue electronics with ADCs and DACs.
- You are able to perform or direct circuit board layout to achieve and maintain required performance.
- You have experience in the design of switched mode PSUs.
- You are experienced in using electronic test equipment.
- You completed a Bachelor degree in Electrical & Electronic Engineering (or comparable). A comparable Master's degree is preferred.
- Past experience in designing electronics to comply with global EMC standards is preferred.
- Preferably, you have experience with optical and laser systems, or real time instrumentation.
- Preferably, you are experienced in developing and testing electronics suitable for SIL certification.
- Experience of interfacing analogue electronics with microprocessors and FPGAs is preferred.
- Preferably, you know all about an optimal application of filtering, suppression, shielding and screening technologies.
- Ideally, you are familiar with common industrial interfaces/networks, including 4-20mA loop, HART, RS485 and Modbus.
- You are willing to travel about 25 % of your work time.

### MSA as an employer: What makes us unique

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Only with the best employees are we able to remain a leader of innovation. We provide the ideal environment for our employees:

- **Excellent facilities:** Our Research & Development team works with state-of-the-art IT infrastructure.
- **Individual career paths:** We offer various development prospects on the basis of personal wishes and talent.
- **Flexible working hours:** Depending on the requirements of the role, there is the option of partly working from home.
- **Swift decisions:** We combine the stability of an established company with the functioning of a young technology enterprise.
- **Fantastic team:** Benefit from the diversity of your highly qualified colleagues and work with them to further hone your skills!

### Interested?

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We are looking forward to receiving your application. Please send your application documents in English with details of your desired salary and earliest start date by e-mail to: [Karriere@MSAsafety.com](mailto:Karriere@MSAsafety.com)

**MSA Technologies and Enterprise Services GmbH**

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