Functional Safety Systems Engineer

Workplace: SS15 6EE, Laindon

Apply online!

What to expect:

Bertrandt is an independent and international development service provider with long years of automotive expertise. With cross-industry know-how and a holistic understanding of systems and products, we create technological solutions at any stage of the product development process. We deal with a focus on hot topics such as digitalization, e-mobility and autonomous systems, mainly for the automotive, aerospace and mechanical engineering sectors, and consistently facilitate the development of tailored solutions in these areas. Our goal: to accelerate technological progress and make a relevant contribution to a sustainable future. We work on this every day – with around 14,000 employees at more than 50 sites worldwide.

We are recruiting for a **Functional Safety Systems Engineer for our customer.**

Our customer is seeking a Functional Safety Systems Engineer to join their core team in the Dunton Technical Centre in Laindon, Essex. You will be a key player in ensuring their complex, distributed technologies—including powertrain, infotainment, and active safety—meet the highest safety standards. Using Model-Based Systems Engineering (MBSE), you will bridge the gap between research and production, turning

What you bring along:

Skills required:

- **ISO 26262 Proficiency:** Practical application of ISO 26262 processes, methods, and tools within a product development environment
- **MBSE/SysML Modelling:** Ability to model functions, interfaces, and safety-related behaviours using system modelling languages
- **Technical Documentation:** Strong capability in producing clear technical work products to support audits, safety cases, and program milestones
- **Cross-Functional Collaboration:** Ability to work effectively with global teams across diverse disciplines (Powertrain, Infotainment, Quality, Manufacturing)
- **Systems Thinking:** A proactive approach to understanding complex system interactions and "safety by design" principles.

Skills preferred:

- **Tool Expertise:** Hands-on experience with specific MBSE tools such as MagicDraw or Cameo.
- **Technical Leadership:** Ability to lead technical workstreams and influence stakeholders across the organization.

"what if" into "what's next."

Responsibilities:

- Execute ISO 26262 functional safety activities with cross functional and global teams (e.g., powertrain, infotainment, active safety, driver assistance, and automated features)
- Apply Ford ISO 26262 processes, methods, tools, and trainings to develop functional safety software and system work products
- Use MBSE/SysML to model functions, interfaces, and safety-related behaviour; contribute to globally common safety ratings and model libraries
- Support creation of safety concepts and system designs; help transition advanced technologies from research to production
- Produce clear technical documentation and communications supporting audits, reviews, and program milestones
- Lead reviews with key stakeholders and suppliers.
- Collaborate with research and advanced engineering, product development, quality, and manufacturing to integrate safety by design
- Identify and drive continuous improvement in processes, methods, tools, and training
- Serve as a growing subject matter expert within the first year and mentor peers in functional safety and systems engineering best practices
- **Communication:** Exceptional ability to translate complex technical safety concepts into actionable requirements for non-safety engineering teams.
- **Test Development:** Experience developing design verification tests at the component, system, and vehicle levels.

Experience required:

- Minimum of 2 years of experience in the development of software-enabled systems
- Proven track record of applying the ISO 26262 functional safety standard throughout the product development lifecycle

Experience preferred:

- Experience in designing architectures for complex systems, software, or electronic hardware
- Experience in the planning, development, and testing of embedded software
- Experience analysing test results and executing verification plans within an automotive context

Education required:

- Bachelor's degree in Electrical, Mechanical, Aerospace, Systems Engineering, or Computer Science

Education preferred:

- Master's degree in Electrical Engineering, Systems Engineering, Computer Science, or a related technical field

Position is confirmed inside IR35. Successful candidates have to be eligible to work in the UK.

The role requires 4 days on site in Laindon, Essex

What we offer: An interesting and varied role with an expanding international company, recognised for its industry expertise, company culture supporting teamwork and creativity

Contact:

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