



Senior Systems Engineer - Application Compute System (f/m/div)*

Job description

Have you heard of Infineon's ambitious masterplan to develop our next hybrid automotive microprocessor-microcontroller generation? Do you want to shape the future of smarter, safer and connected cars by solving complex technical challenges? Then we have a great opportunity for you! As a Senior Systems Engineer you will act as a key driver to define the architecture of the application compute system of our next hybrid microprocessor/microcontroller product generation. With this position you will be entering our Technical Ladder: a special career path for those who share innovative ideas, demonstrate comprehensive technical knowledge, show thought leadership, possess problem solving abilities and are able to create business value. This position can be filled in Munich, Duisburg, Langen, Bristol or Dublin.

In your new role you will:

- **Support the architecture of the Application Compute System** including local memories, caches and the interconnect concept among the heterogeneous components
- **Ensure the right sourcing strategy of Application Compute** based on our application assumptions together with the platform architects
- Ensure together with our SW team an **ease of software development**
- Drive together with the platform lead architects a **platform differentiation strategies** with respect to dependability and availability in a hybrid SoC-SiP concept
- **Close cooperation** with stakeholders in the organization and other business lines within Infineon
- **Ensure cost competitiveness and compatibility** of the platform with respect to automotive quality and safety requirements
- **Establish methodologies** for the application core system

Profile

Acting as if Infineon is your own enterprise and always keeps the bigger picture in mind is part of your mindset. Supporting the team and department in continuously striving for the goal of "zero-defect" is not a problem for you. You treat co-workers, employees, and partners with trust and respect.

You are best equipped for those tasks if you have:

- A **degree in electrical engineering, physics** or a similar field

At a glance

Location:	Bristol (United Kingdom), Dublin (Ireland), Duisburg (Germany), Munich (Germany), Langen (Germany)
Job ID:	323894
Start date:	immediately
Entry level:	5+ years
Type:	Full time
Contract:	Permanent

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Job ID: **323894**
www.infineon.com/jobs

Contact

Sören Schmögner



- At least **8 years of professional experience as concept and design system engineer** for microprocessor-based products
- **Excellent understanding of automotive microcontrollers** and open eyes & ears for market trends
- **Expertise with different CPU architectures** like ARM, ARC or PPC and heterogeneous compute architectures
- Experience with **designing memory hierarchies** – e.g. cache architectures, cache L2/L3 caches, coherency
- **Proven knowledge** with implementing clocking, power, reset architectures and state of the art Network on Chip offerings
- Proven practical **experience with simulation systems** – e.g. OVP, GEM5, QEMU or FPGA based
- **Know-how in system modeling** based on Matlab/Simulink script language
- Hands-on experience in **product architecture documentation and requirements management**
- **Excellent English communication skills** and ideally a good command of German

