



Lead Architect for SoC & Platform Interconnect (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 Lead Architect for SoC & Platform Interconnect you will act as a key driver in our new Platform Architecture Team to define scalable architecture solutions for SoC interconnect of our novel automotive platforms. 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 or Bristol (UK).

In your new role you will:

- **Derive product requirements for the on-chip interconnect** from application assumptions, stakeholder requirements and system architecture proposals
- **Define scalable architecture solutions for SoC interconnect** covering comprehensive product families; products will include multiple compute clusters, external memory interfaces such as LPDDR, gigabit-speed communication links and application specific accelerator subsystems
- **Define and conduct feasibility studies**; evaluate solutions wrt. impact on cost, performance and power
- **Technically guide a community of component architects, designers, physical implementation and verification engineers to ensure feature and performance fulfillment** and also efficient physical implementation of the proposed interconnect solution
- **Pro-actively drive innovation in the area of microcontroller platform and SoC architecture** based on profound understanding of future product needs and industry trends

Profile

You have a clear notion of how innovation contributes to the commercial success of the company, you constantly gain new insights by questioning existing assumptions and you inspire others for your ideas explaining even complex issues in a clear and convincing manner. Furthermore, you accept responsibility and accountability for decisions, and you are open to new challenges without knowing the right path to a solution in advance. If you remain aware of the big picture even in complex situations and take decisions despite uncertain circumstances, then you should join our team!

At a glance

Location:	Duisburg (Germany), Langen (Germany), Munich (Germany), Bristol (United Kingdom)
Job ID:	322195
Start date:	as soon as possible
Entry level:	5+ years
Type:	Full time
Contract:	Permanent

Apply to this position online by following the URL and entering the Job ID in our job search:

Job ID: **322195**
www.infineon.com/jobs

Contact

Nadine Patriarca Roth
Talent Attraction Manager



You are best equipped for those tasks if you have:

- At least **15 years of experience in technical roles** in the area of **SoC architectures and implementation in leading edge manufacturing nodes**
- Profound understanding of **high-performance embedded compute architectures**, multi-core subsystems, related memory hierarchies and coherency solutions
- Hands-on experience with **state-of-the-art interconnect solutions** such as **crossbars** or **networks-on-chip** supporting **quality-of-service, security** and **functional safety features**
- Detailed knowledge about **industry-standard bus protocols**, e.g. AMBA and its variants AHB, AXI, ACE, CHI
- Good understanding of **manufacturing technologies** from **leading-edge semiconductor foundries** and their **IP ecosystem**
- Experience with **architecture exploration** and **performance simulation of interconnect and compute elements**
- **Automotive domain knowledge** is an essential plus i.e. in terms of microcontroller and processor architectures for automotive applications
- **Functional Safety and Security experience** is a plus (e.g. experience with development according to ISO26262 or ISO21434)
- Professional **self-organization** and **leadership skills**
- The ability to work in **cross-functional teams** and in a **multi-cultural environment**

Benefits

- **Langen:** Coaching, mentoring networking possibilities; Wide range of training offers & planning of career development; International assignments; Different career paths: Project Management, Technical Ladder, Management & Individual Contributor; Flexible working conditions; Home office options; Part-time work possible (also during parental leave); Health promotion programs; Medical coverage; Wage payment in case of sick leave; Corporate pension benefits; Performance bonus; Access for wheelchairs
- **Munich:** Coaching, mentoring networking possibilities; Wide range of training offers & planning of career development; International assignments; Different career paths: Project Management, Technical Ladder, Management & Individual Contributor; Flexible working conditions; Home office options; Part-time work possible (also during parental leave); Sabbatical; On-site creche and kindergarden with 120 spots, open until 6pm; Holiday child care; On-site social counselling and works doctor; Health promotion programs; On-site gym, jogging paths, beachvolleyball, tennis & soccer court; On-site canteen; Private insurance offers; Wage payment in case of sick leave; Corporate pension benefits; Flexible transition into retirement ; Performance bonus; Reduced price for public transport and very own S-Bahn station; Access for wheelchairs
- **Bristol:** Coaching, mentoring networking possibilities; Wide range of training offers & planning of career development; Different career paths: Project Management, Technical Ladder, Management & Individual Contributor ; Flexible working conditions; Part-time work possible (also during parental leave) ; Sabbatical; Medical coverage; Labor gymnastics; Private insurance offers; Wage payment in case of sick leave; Corporate pension benefits; IFX Success Bonus and Spot Awards; Accessibility, access for wheelchairs

Why Us

Part of your life. Part of tomorrow.

We make life easier, safer and greener – with technology that achieves more, consumes less and is accessible to everyone. Microelectronics from Infineon is the key to a better future. Efficient use of energy, environmentally-friendly mobility and security in a connected world – we solve some of the most critical challenges that our society faces



while taking a conscientious approach to the use of natural resources.

– **Automotive (ATV) shapes the future of mobility with micro-electronics enabling clean, safe and smart cars** –

Semiconductors are essential to realizing key trends like eMobility, automated driving and secure, connected cars. Infineon **ATV** is the #1 semiconductor partner in the fast-changing automotive world, based on our system knowledge coupled with our passion for innovation and quality. We are a key driver in the ever-advancing pace of digitalization in the automotive industry.

[Click here](#) for more information about working at ATV with interesting employee and management insights and an overview with more #ATVDreamJobs.

Microcontroller

The Infineon business segment MC (Microcontroller) is strongly growing with latest TriCore Microcontroller generation AURIX, offering latest innovation in performance, connectivity, power consumption, safety and security. Furthermore the key application segments are targeting segments with high innovation potential and highest market growth such as Advanced driver Assistant systems. As part of the automotive business unit the focus of MC is on the requirements of the automotive market from motor cycle to truck applications. **#AutomotiveMicrocontroller**

** The term gender in the sense of the General Equal Treatment Act (GETA) or other national legislation refers to the biological assignment to a gender group. At Infineon we are proud to embrace (gender) diversity, including female, male and diverse.*

