

Embedded Software Developer (m/f/d) – part time possible

We are looking for experienced embedded software developers to define and implement mathematically sophisticated algorithms for sensor fusion and automatic data analysis in safety-critical applications on embedded devices from various manufacturers.

About Us

We are an innovative company founded in 2011 from the Karlsruhe Institute of Technology and work closely with our customers from a wide range of industries to bring their projects to life by developing tailor-made software solutions. From fail-safe embedded systems to AI-supported predictive maintenance, we bring state-of-the-art technologies to various fields.

Our strengths lie in resource-efficient development, the development and specification of safety-critical applications, and the seamless integration of innovative solutions into complex systems. Our successes span industries such as automation technology, aviation, defence, building technology, energy supply and medical technology.

What can you expect?

We offer you a diversified collaboration within exciting, international projects at an ambitious and fast-growing company. Our modern working environment and successful startup benefits include flexible working hours, remote work.

Your Tasks

- Analysis and evaluation of new technology methods for embedded devices and current IoT/ Industry 4.0 challenges
- Specification of software requirements and the associated tests
- Design of algorithms for data fusion and filtering for implementation in embedded devices
- Creation of mathematical models of complex processes
- Creation of the software from the functional prototypes to the product
- Adaptation of the software into the embedded device
- Realization of safety-critical applications for different customer markets



What do we expect?

- Successfully completed degree in computer science (university/technical college) or comparable qualification (M.Sc. or doctorate)
- Several years of professional experience (3-10 years) in software development (focus on C/C++)
- Practical experience with CI/CD pipelines and associated tools (Jira, Jenkins, GitHub/GitLab, etc.) and best practices
- Structured and solution-oriented working style, strong analytical skills, and the ability to work in a team
- Experience with resource-efficient programming and embedded operating systems
- Experience in developing safety-critical applications is an advantage
- Experience in applying agile development processes such as Scrum is an advantage
- Reliability and a high level of quality awareness
- Very good verbal and written communication skills in German and English

Your Benefits!

- **Diverse field of activity:** Interesting and varied work both in exciting research topics and in their implementation in industrial solutions.
- **Engaging Research Focus:** Exciting scientific research topics and their implementation in industrial solutions.
- **Intensive Onboarding:** Receive optimal onboarding and handling of varied tasks with a lot of creative freedom.
- **Collaborative Environment:** Experience flat hierarchies, cooperation at equal level room for new innovative ideas.
- **Professional Development:** Development opportunities through independent work, diverse feedback and networking opportunities, social responsibility and sustainable practices.
- **Modern Workspace:** Attractive modern workplace in a growing company with excellent accessibility via public transport in Karlsruhe with regularly organized team events.
- **Flexibility:** Modern working environment with the possibility to flexibly switch between home office and attendance.
- **Refreshments:** Stay energized with complimentary drinks, including water, tea and coffee.

Application

We look forward to receiving your application via email at: career@knowtion.de

Please send your application directly to the managing directors:

Mr. Dr. Frederik Beutler, Mr. Vesa Klumpp and Mr. Dr. Thomas Kopfstedt

If you have any further questions, feel free to contact us by phone: +49 721 486 995-10

