



EMBEDDED & CONTROL SYSTEMS ENGINEER

 **Location:** Minato-ku, Tokyo | Full-time

Benefits

- Paid leave: 12–20 days + summer & year-end holidays
- Flexible working hours (no core time)
- Hybrid working style depending on project and customer requirements

Contract

- Base salary: competitive salary package depending on experience, technical expertise, and responsibilities
Typical range for engineering positions: approx. ¥5,000,000 - ¥10,000,000 p.a.
- Performance-based bonus and various allowances
- Defined Contribution (DC) retirement plan

ITK Engineering is a global technology company specializing in software and systems engineering. We support our customers from early concept phases through to deployment, turning complexity into intelligent and reliable solutions. Our portfolio ranges from embedded systems and classic software development to cloud-based solutions and artificial intelligence. ITK serves customers across industries such as automotive, industrial, railway, medical systems, agricultural and construction machinery, and motorsports.

Since 2017, ITK Engineering has been a wholly owned subsidiary of Robert Bosch GmbH.

Job Description

As an Embedded & Control Systems Engineer, you develop and implement control algorithms for embedded and real-time systems. You combine software engineering with control theory to create stable, reliable, and high-performance solutions for complex technical systems. Working closely with cross-functional teams, you contribute to the development of intelligent and safety-critical applications.

Responsibilities

- Develop and implement embedded control algorithms
- Design real-time software for control and automation systems
- Model, simulate, and validate system behavior
- Integrate control logic on embedded platforms and ECUs
- Support system testing, debugging, and performance optimization
- Collaborate with software, hardware, and system engineers

Experience

- Experience in embedded software or control systems development
- Experience with real-time and hardware-near systems
- Experience with system modeling and simulation is a plus

Knowledge & Skills

- Strong skills in C/C++ and embedded systems
- Good understanding of control theory and system dynamics
- Experience with MATLAB/Simulink
- Familiarity with RTOS and real-time architectures
- Understanding of hardware interfaces and system integration
- Structured and analytical mindset
- Fluent Japanese; English is a plus

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