



INTELLIGENT SYSTEMS ENGINEER (AI, PERCEPTION & DIGITAL TWIN)

 **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 Intelligent Systems Engineer, you develop advanced software solutions that enable machines and systems to perceive, analyze, and optimize complex real-world environments. You work on AI, computer vision, simulation, and digital twin technologies to create intelligent and data-driven systems for next-generation applications.

Responsibilities

- Develop AI, perception, and simulation solutions
- Design and implement machine learning and vision algorithms
- Build digital twins and simulation environments
- Process and analyze camera, sensor, and system data
- Support system optimization through virtual validation and data-driven analysis
- Integrate real-world data into models and simulation frameworks
- Collaborate with cross-functional teams on intelligent system development

Experience

- Experience in AI/ML, perception, simulation, or digital twin development
- Hands-on experience with real-world datasets and system modeling
- Experience with machine learning model development and deployment
- Experience with multi-domain systems or MBSE is a plus

Knowledge & Skills

- Strong knowledge of machine learning, computer vision, or simulation technologies
- Experience with Python, OpenCV, and ML frameworks
- Familiarity with C++ and real-time processing
- Understanding of sensor fusion, data processing, or system modeling
- Experience with simulation tools, co-simulation, or digital twin concepts
- Familiarity with ROS or MBSE approaches is a plus
- Structured and analytical mindset
- Fluent Japanese; English is a plus

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