

KOMATSU

Komatsu Pakistan Soft

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Position Title Embedded Application Developer

Why should you join Komatsu Pakistan Soft?

Komatsu Pakistan Soft is a fully owned subsidiary of Komatsu Limited Japan, and we are a part of Komatsu Group of Companies. Komatsu Pakistan Soft (Pvt.) Limited is into operation since 1999. We excel in providing enterprise software application solutions, IT consultancy and outsourcing services. Our vision, utter commitment, sheer dedication, unmatched teamwork and customer-centric approach have helped us evolve into a forerunner of innovation and ingenuity within Komatsu group as well as across the global IT industry.

Industry	Information Technology
Employment Type	This is a full-time on-site contractual role, 5 days a week
Job Level	This is a Mid-Level Role with 03 to 04 years of experience
Education	BS in Computer Engineering/Embedded Systems or other equivalent degree.
Location	G-8, Islamabad

About Your Role:

We are looking for a talented Embedded Application Developer to join our development team on a six-month contractual basis. The selected candidate will be responsible for developing embedded, industrial, or hardware-integrated applications.

Your Impactful Goals Will Include:

- Develop and maintain robust C/C++ software applications for embedded, industrial, and hardware-integrated systems.
- Design and implement efficient software solutions using OOP principles, memory management, multithreading, and software design best practices.
- Develop and optimize applications across Windows, Windows CE/IoT, Android, and Linux platforms.
- Build interactive graphical applications using Qt, MFC, and OpenGL-based 3D visualization.
- Integrate hardware components and peripherals using CAN, UART, and other communication protocols.
- Implement GNSS/GPS and IMU sensor integration, with support for RTK positioning and NTRIP

where applicable.

- Develop and integrate HTTP-based APIs to enable communication between external devices and software systems.
- Perform hardware-level debugging and troubleshooting using logic analyzers, oscilloscopes, and software debugging tools.
- Ensure software reliability through unit, integration, and system-level testing.

Functional Skills Requirement:

- Must have 4–5 years of experience in C/C++ software development for embedded, industrial, or hardware-integrated applications.
- Strong proficiency in C/C++, including object-oriented programming, memory management, multithreading, debugging, and software design best practices.
- Experience developing Windows-based applications, preferably using Windows CE, Windows IoT, or other embedded/industrial Windows, Android and Linux platforms.
- Experience with Qt Framework and Microsoft Foundation Classes (MFC) is highly desirable.
- Hands-on experience with 3D graphics programming, preferably using OpenGL, including rendering, geometric calculations, and 3D visualization.
- Knowledge of hardware communication protocols such as CAN and UART, along with experience using hardware debugging tools such as logic analyzers and oscilloscopes.
- Familiarity with GNSS/GPS, IMU sensors, and sensor data integration. Experience with RTK positioning and NTRIP is an advantage.
- Experience with HTTP-based communication, APIs, and integration with external devices or systems.
- Experience with unit, integration, and system-level testing, including familiarity with relevant testing frameworks.
- Strong analytical and problem-solving skills, with a proactive approach to troubleshooting and system optimization.