NOVARTIS

DDIT OPS SM Automation Engineer Changping

Job ID
REQ-10087390
Сен. 06, 2026
Китай

Сводка

As an Automation Engineer, will support the implementation, operation, maintenance and continuous improvement of automation and IT/OT systems for product manufacturing operations.
The role is primarily a hands-on technical position, working within the site Automation and IT/OT strategy and established technical architecture. You will work closely with site Automation/ITOT leads, Engineering, Production, Quality, global teams and external vendors to execute automation projects and maintain reliable operation of manufacturing systems.
A key focus of this role is to support GMP manufacturing and future aseptic manufacturing expansion, including automation control systems, equipment integration, manufacturing applications and supporting IT/OT infrastructure. Responsibilities will include setting up automation systems, executing vertical integration with the new MES GMT4, and implementing the Recipe management project.
As the number and complexity of manufacturing systems continue to increase, the role will also support the lifecycle management of platforms such as AGV/AMR, AS/RS, WMS, robotics, MES interfaces, Vertical Integration, EMS/BMS and other shop-floor systems.
The role will be expected to understand end-to-end system data flows and assist with troubleshooting across equipment, applications, interfaces, databases and virtualized infrastructure. This includes practical use of SQL, interface monitoring, API and token-based communication, virtual machines and related IT/OT technologies.
The role requires strong practical execution and troubleshooting capability, while major architecture decisions, site automation strategy and overall technical governance will be managed in alignment with the Site Automation/ITOT Lead and applicable global standards.

About the Role

Major accountabilities:

• Support the daily operation, maintenance, monitoring and troubleshooting of site Automation and IT/OT software platforms, including AGV, AS/RS, WMS, MES interfaces, Vertical Integration and other manufacturing-related systems.

• Support data integration between production equipment, automation systems and higher-level software platforms to ensure accurate, complete and reliable data transfer.

• Understand and maintain system interfaces using common industrial and software integration technologies such as OPC UA, MQTT, REST API and Web Services.

• Use SQL to query, analyze and troubleshoot system database data in support of production issues, interface failures and data-related investigations.

• Apply basic software programming and scripting skills for data processing, interface testing, system diagnostics and development of simple automation tools.

• Support configuration and troubleshooting of system authentication and software-to-software communication mechanisms, including APIs, authentication tokens, service accounts and certificates.

• Support applications running on Windows Server, virtual machines and virtualized infrastructure, and perform basic troubleshooting using application logs, system logs and service status information.

• Analyze and troubleshoot technical issues across equipment, software platforms, interfaces, databases and servers, and work with relevant technical teams or vendors when additional support is required.

• Support software system configuration changes, version upgrades, testing, backup and recovery, and lifecycle maintenance activities.

• Maintain necessary technical documentation, including system configurations, interface specifications, data flows, database information and troubleshooting records.

Key performance indicators:

• Stable and reliable operation of assigned Automation and IT/OT software platforms.

• Timely troubleshooting and resolution of system, interface, database and application-related issues.

• Reliable and accurate data exchange between production equipment, automation systems and higher-level applications.

• Successful execution of system maintenance, configuration changes, upgrades, backup and recovery activities.

• Timely completion of assigned technical activities in accordance with agreed quality and schedule requirements.

• Effective support of manufacturing operations with minimal system-related downtime.

• Quality and completeness of technical documentation, system records and troubleshooting information.

• Compliance with applicable site IT/OT, security and quality requirements.

• Positive feedback from manufacturing and technical stakeholders.

• No critical findings attributable to assigned system support and maintenance activities.

Work Experience:

• Minimum 3–5 years of relevant experience in automation engineering, IT/OT systems, manufacturing software platforms or industrial system integration.

• Knowledge of automation technologies and software platforms (e.g. SCADA, DCS, Historian, MES)

• Mandatory basic knowledge of PLC-based automation systems, including control architecture, I/O, tags, alarms, industrial communication and basic troubleshooting. Hands-on experience with Siemens, Rockwell or equivalent PLC platforms is preferred.

• Knowledge of industry standards and protocols for communication and data exchange in manufacturing operations (e.g. OPC, MQTT).

• Working knowledge of relational databases and SQL for data query, analysis and troubleshooting.

• Basic programming or scripting capability, such as Python, PowerShell, C# or equivalent.

• Basic understanding of Windows Server, virtual machines and system troubleshooting.

• Understanding of manufacturing operations and processes.

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Technical Operations
Job Type
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Employment Type
Regular
Shift Work
No

Accessibility and accommodation

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