NOVARTIS

Sr. Spec. DDIT OPS ITOT SM Site Robotics

Job ID
REQ-10087455
Sep 08, 2026
LOC_CN

About the Role

Major accountabilities:

• Support the design, development, programming, commissioning and troubleshooting of industrial robots, collaborative robots, mobile robots and humanoid robotics applications.

• Develop and optimize robot programs, motion sequences, trajectories and operating logic for manufacturing and material-handling applications.

• Integrate machine vision, 2D/3D cameras, sensors, force/torque sensors and other perception technologies into robotic applications.

• Support development of robot gripping and end-of-arm tooling solutions for different products, materials and operating scenarios.

• Integrate robots with PLCs, production equipment, conveyors, AGV/AMR systems and other automation platforms.

• Perform onsite testing, debugging, cycle-time optimization, reliability improvement and technical troubleshooting of robotics systems.

• Explore humanoid robotics technologies and support use-case evaluation, proof-of-concept development, testing and implementation in factory environments.

• Evaluate new robotics technologies, software platforms, sensors and suppliers through practical testing and technical comparison.

• Apply programming and software tools for robot control, data processing, simulation, vision applications and system integration.

• Ensure compliance with GMP regulations and security protocols.

• Maintain technical documentation including robot programs, system configurations, interface information, test records and troubleshooting documentation.

Key performance indicators:

• Successful implementation and stable operation of assigned robotics automation solutions.

• Timely completion of robotics programming, integration, testing and commissioning activities.

• Improvement of robot reliability, cycle time and operational performance.

• Effective troubleshooting and resolution of robotics, vision and integration-related technical issues.

• Successful completion of robotics proof-of-concept and technology evaluation activities.

• Successful identification and implementation of practical humanoid robotics use cases.

• Quality and completeness of robot programs, technical documentation and system records.

• Positive feedback from manufacturing and technical stakeholders.

COMPETENCY PROFILE

Strong technical background in industrial robotics, automation, computer vision, and/or physical AI, ideally within regulated (GMP) manufacturing environments. Proven ability to translate emerging technologies into standardized, deployable solutions. Experience defining technical requirements (URSs), standards, and vendor evaluation criteria. Strong stakeholder management skills, with the ability to align across global platforms, sites, engineering, and procurement.

EDUCATION & QUALIFICATION REQUIREMENTS

• Bachelor's or Master's degree in a relevant technical discipline, such as:

- Robotics, Mechatronics, or Automation Engineering

- Electrical, Mechanical, or Control Systems Engineering

- Computer Science, Artificial Intelligence, or Computer Vision

- Industrial / Manufacturing Engineering

• 7+ years of experience in industrial robotics, automation, or advanced manufacturing technology, ideally within a regulated environment

• Proven track record of evaluating, selecting, and deploying robotics or automation technologies from concept to shop floor

• Experience defining technical standards, User Requirement Specifications (URSs), and vendor evaluation criteria

• Strong understanding of robotics hardware, integration, and automation architectures.

• Knowledge of GMP requirements, data integrity (ALCOA+), and validation principles in regulated manufacturing

• Proven experience in managing budgets and project pipelines

• Familiarity with GMP regulations and compliance standards

• Ability to collaborate with cross-functional teams and key stakeholders

• Business fluency in English

Role Requirements

Division
DIV_TO
Business Unit
Information Technology
Location
LOC_CN
Site
Changping County (Beijing)
Company / Legal Entity
CN14 (FCRS = CN014) China Novartis Institutes for BioMedical Research Co., Ltd.
Functional Area
FCT_TO
Job Type

Full time
Employment Type
Regular
Shift Work
No
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