

Robotics Expert

Job ID

REQ-10089202

Oct 06, 2026

LOC_SG

About the Role

Key Responsibilities:

- Develop and execute the site robotics strategy and roadmap, identifying high-value automation opportunities and defining long-term robotics initiatives.
- Lead robotics programs end-to-end, from opportunity assessment and business case development through implementation, deployment, and value realization.
- Own the full lifecycle of robotics solutions, ensuring sustainable operations, maintenance, optimization, upgrades, and replacement planning.
- Evaluate, select, and deploy robotics technologies, including AMRs, AGVs, material handling robots, service robots, AI-enabled robotics, and emerging Physical AI solutions.
- Drive cross-functional collaboration, partnering with manufacturing, laboratories, warehousing, engineering, quality, IT/OT, and global robotics experts.
- Establish robotics governance, standards, and performance monitoring, ensuring scalability, reliability, safety, and operational excellence.
- Ensure regulatory and operational compliance, including GMP requirements, validation, qualification activities, cybersecurity standards, and inspection readiness.
- Build site robotics capabilities and external partnerships, acting as the site's robotics subject matter expert and fostering strong vendor and stakeholder relationships.

Essential Requirements:

- Bachelor's degree in Robotics, Automation Engineering, Mechanical Engineering, Electrical Engineering, Mechatronics, or a related technical discipline.
- Minimum 5+ years of demonstrated experience in robotics, with hands-on implementation and deployment of industrial robotics solutions.
- Experience leading robotics or automation programs/projects from concept through implementation and operational support.
- Excellent stakeholder management and influencing skills, with experience engaging both global and local business partners.
- Fluent English language skills (spoken and written).
- Strong understanding of industrial operations, safety, maintenance, and continuous improvement practices;

Desirable Requirements:

- Exposure to GMP/pharmaceutical environments and AI-enabled robotics is preferred.
- Expertise in robotics technologies such as AMRs, AGVs, automated material handling systems, robotics automation, and vision-guided systems

Commitment to Diversity & Inclusion:

We are committed to building an outstanding, inclusive work environment and diverse teams representative of the patients and communities we serve.

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<https://www.novartis.com/about/strategy/people-and-culture>

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Accessibility and accommodation:

Novartis is committed to working with and providing reasonable accommodation to all individuals. If, because of a medical condition or disability, you need a reasonable accommodation for any part of the recruitment process, or in order to receive more detailed information about the essential functions of a position, please send an e-mail to and let us know the nature of your request and your contact information. Please include the job requisition number in your message.

Role Requirements

Division

DIV_TO

Business Unit

Information Technology

Location

LOC_SG

Site

Tuas South Avenue

Company / Legal Entity

SG12 (FCRS = SG012) Novartis Singapore Pharmaceutical Manufacturing Pte Ltd

Functional Area

FCT_TO

Job Type

Full time

Employment Type

Regular

Shift Work

No

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