NOVARTIS

Robotics Expert

Job ID
REQ-10089202

十月 06, 2026

Singapore

摘要

Location: Tuas South Avenue, Singapore #LI-Hybrid

Internal job title: ITOT Engineer

The Robotics Expert will lead the robotics transformation of the Drug Substance manufacturing site in Tuas South Avenue, Singapore, driving the development, implementation, scaling, and lifecycle management of robotics solutions across manufacturing, laboratories, warehousing, and material handling. The role combines robotics expertise, strategic leadership, program management, and stakeholder engagement to enhance productivity, quality, safety, and operational excellence while ensuring GMP, validation, and cybersecurity compliance. As the site's robotics expert, the individual will collaborate with local and global stakeholders, engineering, operations, quality, IT/OT teams, and technology partners to build a sustainable robotics ecosystem.

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.

Why Novartis?
Our purpose is to reimagine medicine to improve and extend people ' s lives and our vision is to become the most valued and trusted medicines company in the world. How can we achieve this? With our people. It is our associates that drive us each day to reach our ambitions. Be a part of this mission and join us! Learn more here: https://www.novartis.com/about/strategy/people-and-culture

Join our Novartis Network: If this role is not suitable to your experience or career goals but you wish to stay connected to learn more about Novartis and our career opportunities, join the Novartis Network here: https://talentnetwork.novartis.com/network

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.

Why Novartis: Helping people with disease and their families takes more than innovative science. It takes a community of smart, passionate people like you. Collaborating, supporting and inspiring each other. Combining to achieve breakthroughs that change patients ' lives. Ready to create a brighter future together? https://www.novartis.com/about/strategy/people-and-culture

Benefits and Rewards: Learn about all the ways we ' ll help you thrive personally and professionally. Read our handbook (PDF 30 MB)

部门
Operations

Business Unit
Information Technology

地点
Singapore

站点
Tuas South Avenue

Company / Legal Entity
SG12 (FCRS = SG012) Novartis Singapore Pharmaceutical Manufacturing Pte Ltd

Functional Area
Technical Operations

Job Type
Full time

Employment Type
Regular

Shift Work
No

var kPlayer = KalturaPlayer55802022 || KalturaPlayer; var config = { targetId: "kalturaplayer6afdbdae82eb6443926069", provider: { widgetId: "10m7rm1pm", partnerId: "2076321", uiConfId: "55802022" }, playback: { autoplay: false, autopause: false, muted: false, loop: false }, sources: { options: {}, startTime: 0 }, disableUserCache: "true", plugins: {}, sources: { options: {}, startTime: 0 }, ui: { showCCButton: false, settings: { showQualityMenu: true, showSpeedMenu: false }, components: { fullscreen: { disableDoubleClick: false } }, uiComponents: [{ presets: ['Playback', 'Live'], area: 'BottomBarRightControls', replaceComponent: 'Fullscreen', get: kPlayer.ui.components.Remove }] } }; // Check and add plugins only if they exist if (kPlayer.plugins["download"]) { config.plugins.download = { disable: true }; } if (kPlayer.plugins["transcript"]) { config.plugins["playkit-js-transcript"] = { position: "right", // Default: bottom;('left', 'right', 'top', 'bottom') to enable transcript. expandMode: "over", // Default: alongside;('alongside', 'hidden', 'over') expandOnFirstPlay: false, showTime: true, downloadDisabled: false, printDisabled: false, disable: true }; } if (kPlayer.plugins["preventSeek"]) { config.plugins.preventSeek = { preventSeekForward: false, preventSeek: false }; } config.plugins.floating = { disable: true }; if (kPlayer.plugins["navigation"]) { config.plugins.navigation = { position: "right", expandMode: "over", expandOnFirstPlay: false, visible: false }; } if (kPlayer.plugins["hotspots"]) { config.plugins['playkit-js-hotspots'] = { disable: true }; } if (kPlayer.plugins["moderation"]) { config.plugins['playkit-js-moderation'] = { disable: true }; } if (kPlayer.plugins["info"]) { config.plugins['playkit-js-info'] = { disable: true }; } if (kPlayer.plugins["share"]) { config.plugins.share = { disable: true }; } config.ui.uiComponents = []; if (kPlayer.plugins["googleAnalytics"]) { config.plugins.googleTagManager = {}; config.plugins.googleTagManager.customEventsTracking = {}; config.plugins.googleTagManager.containerId = 'GTM-57RJQ5'; config.plugins.googleTagManager.customEventsTracking.custom = [];

config.plugins.googleTagManager.customEventsTracking = { preset: { coreEvents: true, UIEvents: false, playlistEvents: false, castEvents: false } }; }

// Ensure the global player registry array always exists, regardless of embed type. window.kalturaPlayerVideos = window.kalturaPlayerVideos || []; try { var thumbEmbedPromise = thumbnailEmbed({config, mediaInfo: {entryId: "1dgfvmafo"}}); // thumbnailEmbed() returns a Promise that resolves with the player instance // when the user clicks the thumbnail. Use .then() to capture the player directly. thumbEmbedPromise .then(function(player) { window.kalturaPlayerVideos.push(player); // Notify kaltura_datalayer.js that a new player is ready so it can // attach custom event listeners immediately, regardless of when // the user clicked the thumbnail relative to page load. document.dispatchEvent(new CustomEvent('kalturaPlayerReady', { detail: { player: player } })); }) .catch(function(error) { console.error(error); }); } catch (e) { console.error(e.message) }

Job ID
REQ-10089202

Robotics Expert

Apply to Job



Job ID
REQ-10089202

Robotics Expert

Apply to Job

Source URL:
https://www.novartis.com.cn/careers/career-search/job/details/req-10089202-robotics-expert

List of links present in page

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

2. https://www.novartis.com/about/strategy/people-and-culture
3. https://www.novartis.com/sites/novartis.com/files/novartis-life-handbook.pdf
4. https://novartis.wd3.myworkdayjobs.com/en-US/NovartisCareers/job/Tuas-South-Avenue/Robotics-ExpertREQ-10089202
5. https://novartis.wd3.myworkdayjobs.com/en-US/NovartisCareers/job/Tuas-South-Avenue/Robotics-ExpertREQ-10089202