

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.

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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:
"kalturaplayer6ac7390f90b9a204054487", 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) }
```

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