

Director, AI Systems Foundations & Reusable Capabilities

Job ID
REQ-10086855

9月 02, 2026

Ireland

摘要

Director, AI Systems Foundations & Reusable Capabilities

#LI-Hybrid

Location: London

Novartis is unable to offer relocation support for this role: please only apply if this location is accessible for you.

The Director, AI Systems Foundations & Reusable Capabilities is a senior technical AI leadership role within Data Science & AI, responsible for establishing the reusable foundations that enable Development AI systems to be built faster, more consistently, and with greater technical leverage across Novartis.

The role identifies common technical patterns across AI initiatives and shapes the long-term evolution of Development's AI capability stack across agentic AI, retrieval and knowledge systems, simulation and digital twins, MLOps, LLMOps, AgentOps, and AI lifecycle management. It translates proven architectures, components, engineering practices, and design decisions into reusable AI capabilities that reduce duplication and ensure learning from one system strengthens the next.

This role owns reusable AI system foundations and technical AI capability assets, not product roadmaps, business adoption, portfolio governance, infrastructure operations, or enterprise architecture. It partners closely with DSAI domain leaders, the AI Systems Reliability Director, Product teams, Strategy & Governance, and DDIT to ensure AI capabilities are reusable, interoperable, technically coherent, and continuously improved.

About the Role

Major Accountabilities

AI Foundations & Reference Architectures

- Define reusable architectures, design patterns, and reference implementations for AI systems across Development.
- Establish common approaches for agentic AI, retrieval-augmented generation, knowledge systems, simulation, digital twins, and human-in-the-loop AI.
- Provide technical guidance on reuse, extension, and evolution of AI capabilities.
- Ensure AI systems are designed for modularity, interoperability, scalability, and maintainability.

Reusable AI Capabilities & Engineering Practices

- Build and maintain reusable AI components, frameworks, templates, and capability assets.
- Define AI engineering practices and reference approaches for MLOps, LLMOps, and AgentOps.
- Establish standards for lifecycle management, versioning, orchestration, observability, and technical documentation.
- Identify recurring technical needs and convert them into reusable organizational capabilities.

Capability Scaling & Technical Enablement

- Partner with domain leaders to identify successful patterns that can be reused across Development.
- Translate project-level solutions into reusable architectures, components, and implementation blueprints.
- Guide AI engineers and data scientists in designing systems that can be reused and extended across domains.
- Promote technical consistency while preserving flexibility for innovation.

Capability Learning & Evolution

- Capture architectural, engineering, and implementation learnings from AI initiatives and transform them into reusable assets.
- Build mechanisms for sharing AI patterns, reference designs, and technical best practices across DSAI.
- Partner with the Reliability Director to connect reusable capabilities with evaluation evidence, reliability insights, and production readiness criteria.

- Continuously evolve the Development AI capability base as technologies and practices mature.

Key Performance Indicators

- Percentage of strategic AI systems leveraging reusable AI patterns or reference architectures.
- Number of reusable AI capabilities adopted across multiple domains.
- Reduction in duplicate technical solutions across the portfolio.
- Reduction in time required to build new AI systems through capability reuse.
- Number of project learnings converted into reusable capability assets.
- Technical satisfaction and adoption of reusable capabilities within DSAI.

Minimum Requirement: Work Experience

- 10+ years leading AI, machine learning, AI engineering, or technical architecture initiatives.
- Demonstrated experience designing reusable AI architectures, platforms, frameworks, or technical capabilities.
- Deep expertise in modern AI systems, including LLMs, RAG, agentic systems, orchestration, and AI lifecycle management.
- Experience translating prototypes and local solutions into scalable reusable capabilities.
- Experience leading senior technical teams in complex environments.
- Healthcare, life sciences, or regulated industry experience preferred.

Rewards

At Novartis, we're committed to reimagining medicine together - and rewarding the people who make it happen.

The rewards of being part of our team go far beyond base pay and incentives. We also offer a variety of competitive benefits in kind to help you thrive personally and professionally, such as insurance plans, retirement plans, wellbeing resources and global recognition programs. In addition, we provide flexible and hybrid working options, where possible, and a minimum of 14 weeks paid parental leave.

Expected Annual Base Salary Range for role:

- Dublin, Ireland: 102,200.00 - 189,800.00 EUR Annual

The salary offered is determined based on gender-neutral objectives, such as relevant skills, competencies and experience in accordance with the Novartis pay setting policy and upon joining Novartis will be reviewed periodically.

In addition to your base salary, you may be eligible for a performance-based bonus depending on certain performance parameters. Further details will be provided during the application process.

Pay equity is a fundamental principle of our employment policy and reflects our commitment to create a diverse, equitable and inclusive environment that treats all employees with dignity and respect, as outlined in our Code of Ethics.

Read our [brochure](#) to learn more about our global total rewards offering: <https://www.novartis.com/sites/novartiscom/files/novartis-life-handbook.pdf>

Note: Benefits and compensation may vary by country and are subject to local legal requirements, including provisions of collective bargaining agreements where applicable. A full overview of your compensation package, including any relevant collective bargaining agreement details applicable to your role based on your employment location and Novartis employer entity, will be communicated separately to you during the application process.

Commitment to Diversity and Inclusion / EEO paragraph:

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

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>

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Benefits and Rewards: Learn about all the ways we ' ll help you thrive personally and professionally.

[Read our handbook \(PDF 30 MB\)](#)

Primary location salary range
€ 102,200.00 - € 189,800.00

部门
Development

Business Unit
Development

地点
Ireland

站点
Dublin (NOCC)

Company / Legal Entity
IE02 (FCRS = IE002) Novartis Ireland Ltd

Functional Area
Data and Digital

Job Type
Full time

Employment Type
Regular

Shift Work
No

```

"kalturaplayer6a98f771c0b8c915159500", 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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