NOVARTIS

Associate Director, Technical Lead (ML Engineering & Compute Platform Focus)

Job ID
REQ-10083395

7月 31, 2026

Czech Republic

Available in: English

摘要

Are you passionate about building the ML platforms, compute environments, and AI capabilities that power scientific discovery at scale? This is a unique opportunity to join a newly created Product Technology & Engineering team in Prague and help shape the future of ML engineering across BR Data & Digital. As Technical Lead (ML Engineering & Compute Platform Focus), you will provide hands-on architectural and technical leadership to design, build, and operate the ML engineering and compute platforms that power scientific discovery at scale. From on-premises HPC clusters to cloud-based GPU compute on AWS, you will ensure data scientists and ML engineers have reliable, scalable, and high-performance infrastructure to train, deploy, and operate machine learning solutions, while embedding modern MLOps practices and AI-driven engineering approaches across the full ML lifecycle.

Location: Prague, Czech Republic #LI-Hybrid

This role is based in Prague, Czech Republic. Novartis is unable to offer relocation support for this role: please only apply if this location is accessible for you.

About the Role

Responsibilities:

- Lead the design, delivery, and operation of ML compute platforms spanning on-premises HPC clusters and cloud-based GPU infrastructure on AWS.
- Support implementation of MLOps pipelines across model training, experiment tracking, packaging, deployment, and production monitoring.
- Ensure compute resources are reliable, efficiently utilised, and cost-optimised.
- Manage job scheduling, GPU resource allocation, and workload orchestration across hybrid environments.
- Champion AI-driven engineering transformation across the team, embedding AI tools into architecture, code generation, code review, CI/CD, and testing workflows.
- Embed security at every layer of the ML engineering lifecycle, enforcing OAuth2, OIDC, SAML, zero-trust principles, and secrets management.
- Partner closely with data scientists, ML engineers, delivery leads, architects, and operations teams to translate ML workload requirements into robust platform capabilities.
- Manage technical dependencies and ensure platform delivery stays aligned and on track within time-bound product initiatives.
- Contribute to a coherent technical architecture across the broader BR Data & Digital product portfolio.
- Foster a team-before-self culture of urgency, quality, and continuous improvement.

Essential for the role:

- 7+ years of hands-on experience in ML engineering, MLOps, or compute platform engineering in complex, large-scale environments.
- Deep expertise in MLOps practices and tooling, including ML pipeline orchestration, experiment tracking, model registry, model serving, and production monitoring and drift detection.
- Strong experience with HPC and compute platform engineering, including GPU cluster management, job scheduling, and high-throughput workload orchestration in on-premises environments.
- Deep expertise in AWS cloud compute for ML, including GPU instances, AWS Batch, Amazon SageMaker, and AWS ParallelCluster for scalable training and inference workloads.
- Strong experience with containerisation for ML workloads, including Docker, NVIDIA Container Toolkit, and Kubernetes with GPU node management.
- Strong security mindset with practical experience in OAuth2, OIDC, SAML, and secrets management.
- Active practitioner of AI-driven engineering, using AI tools to accelerate architecture decisions, code generation, code review, CI/CD, and testing.
- Proficiency in Python and/or another modern programming language, with the ability to lead and review code across a cross-functional engineering team.

Desirable for the role:

- Hands-on experience with NVIDIA DGX systems or similar high-density GPU computing infrastructure.
- Experience with distributed training frameworks and large-scale model training.

Benefits & Rewards:

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

Expected Annual Base Salary Range for role: 1,354,220.00 to 2,514,980.00 CZK

The base 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.

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 minimum 14 weeks paid parental leave.

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 & Inclusion:

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

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 email to di.cz@novartis.com 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)

Primary location salary range
K č 1,354,220.00 - K č 2,514,980.00

部门
Biomedical Research

Business Unit
Information Technology

地点
Czech Republic

站点
Prague

Company / Legal Entity
CZ02 (FCRS = CZ002) Novartis s.r.o.

Functional Area
Research & Development

Job Type
Full time

Employment Type
Regular

Shift Work
No

var kPlayer = KalturaPlayer55802022 || KalturaPlayer; var config = { targetId: "kalturaplayer6a71a9a85649b510005238", 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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