

## Head of Data Engineering & Factory

Job ID  
REQ-10079840

6月 10, 2026

Switzerland

### 摘要

Job Title: Head of Data Engineering & Factory

#LI-Hybrid

Location: Basel, Switzerland

Relocation Support: This role is based in Basel, Switzerland. Novartis is unable to offer relocation support: please only apply if accessible.

Ready to shape how data powers scientific breakthroughs? As Head of Data Engineering & Factory, you will lead the vision and evolution of a cutting-edge Data Product Factory—transforming how scalable, artificial intelligence-ready data products are built, delivered, and consumed across Biomedical Research. This is a high-impact leadership role where you will combine deep technical expertise with strategic thinking to industrialize data engineering, accelerate innovation through automation and artificial intelligence, and enable a truly data-centric organization. You will work at the forefront of modern engineering practices, driving measurable outcomes while empowering teams to build reliable, high-quality data products at scale.

## About the Role

### Key Responsibilities

- Define and execute the vision, roadmap, and operating model for the Data Product Factory
- Lead industrialization of scalable, production-grade data product engineering across Biomedical Research domains
- Drive adoption of standardized engineering patterns, reusable blueprints, and contract-first design principles
- Ensure all data products are artificial intelligence-ready with standardized interfaces, metadata, and controlled access mechanisms
- Lead modernization of engineering practices using automation-first and artificial intelligence-native approaches
- Oversee end-to-end lifecycle of data products including build, certification, deployment, and deprecation
- Establish and scale continuous integration, continuous deployment, and development and operations capabilities across platforms
- Embed governance, security, lineage, and policy-as-code into engineering workflows by design
- Build and lead high-performing engineering teams, driving technical excellence and organizational capability growth
- Partner with domain and platform leaders to align business priorities with engineering delivery outcomes

### Essential Requirements

- Over 10 years of experience in software engineering, platform architecture, or enterprise data infrastructure
- Proven track record building and scaling enterprise data platforms or productized data systems
- Strong experience leading engineering teams within complex, matrixed organizational environments
- Deep expertise in continuous integration, continuous deployment, and automated testing practices in production environments
- Demonstrated experience embedding governance, access control, lineage, and compliance within engineering workflows
- Experience enabling artificial intelligence use cases through well-designed data products, interfaces, and metadata frameworks
- Strong ability to apply automation and artificial intelligence to improve engineering productivity and operational efficiency
- Excellent communication and stakeholder management skills with proven experience influencing senior leadership

### Desirable Requirements

- Experience designing agent-compatible interfaces, metadata frameworks, and retrieval-augmented data access patterns
- Proven success mentoring multidisciplinary engineering teams across platform, data, quality,

and artificial intelligence domains

## Commitment to Diversity and 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 to receive more detailed information about the essential functions of a position, please email [inclusion.switzerland@novartis.com](mailto:inclusion.switzerland@novartis.com) and share the nature of your request along with 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  
CHF142,100.00 - CHF263,900.00

部门  
Biomedical Research

Business Unit  
Research

地点  
Switzerland

站点

Basel (City)

Company / Legal Entity

C028 (FCRS = CH028) Novartis Pharma AG

Functional Area

Research & Development

Job Type

Full time

Employment Type

Regular

Shift Work

No

```
var kPlayer = KalturaPlayer55802022 || KalturaPlayer; var config = { targetId:
"kalturaplayer6a35380f1d289784219765", 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 kalturaPlayer =  
kPlayer.setup(config); // Add the player to the global array.  
window.kalturaPlayerVideos.push(kalturaPlayer); // Load the Player for other media.  
kalturaPlayer.loadMedia({entryId: "1d_gfvmafo"}); } catch (e) { console.error(e.message) }
```

Job ID  
REQ-10079840

Head of Data Engineering & Factory

[Apply to Job](#)



Job ID  
REQ-10079840

Head of Data Engineering & Factory

[Apply to Job](#)

---

Source URL:

<https://prod1.novartis.com.cn/careers/career-search/job/details/req-10079840-head-data-engineering-factory>

List of links present in page

1. <https://www.novartis.com/about/strategy/people-and-culture>
2. <https://www.novartis.com/sites/novartiscom/files/novartis-life-handbook.pdf>
3. <https://novartis.wd3.myworkdayjobs.com/en-US/NovartisCareers/job/Basel-City/Head-of-Data-Engineering---FactoryREQ-10079840>
4. <https://novartis.wd3.myworkdayjobs.com/en-US/NovartisCareers/job/Basel-City/Head-of-Data-Engineering---FactoryREQ-10079840>