

Head of Data Engineering & Factory

Job ID
REQ-10079840
Июн. 09, 2026
Швейцария

Сводка

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 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 \(PDF 30 MB\)](#)

Дивизион
Biomedical Research
Business Unit
Research
Место
Швейцария

Сайт
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

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