

# Head of Data Engineering & Factory

Job ID  
REQ-10079840  
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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](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>

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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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