

TRD Data Science & AI Fellow

Job ID
REQ-10067811

12月 01, 2025

Switzerland

摘要

Are you a recent Master ' s graduate in data science, engineering, pharmaceutical sciences, biologics, or computer science with passion for leveraging data and digital technologies to drive innovation in synthetic molecules, biologics, and medical device & packaging development?

Join our 2-year rotational program!

Gain hands-on experience with cutting edge digital tools and platforms (AI platform, simulation software) and broaden your expertise through three dynamic focus areas:

1. Data Modeling
2. Process Modeling & Simulation
3. Process Digitalization

You ' ll rotate across key functions within Technical Research & Development (TRD), including New Chemical Entities (NCE), Biologics (Bx), and Global Device & Packaging Development (GDPD) and participate in strategic digitalization initiatives and innovation projects.

About the Role

Location: Basel, Switzerland OR Schaffhausen, Austria; #LI-OnSite

This Postgraduate program is limited to 2 years, with the start date in March 2026.

Please note that we can only accept applicants who are eligible to work in Switzerland or have completed their studies at a Swiss University or applicants who are eligible to work in Austria or are citizens of the European Union.

Key Responsibilities:

- Develop, validate, and maintain data models for synthetic molecules, biologics, and packaging/medical devices.
- Integrate diverse data sources (experimental, operational, regulatory) to enable advanced analytics and reporting.
- Collaborate with data scientists and IT teams to ensure data integrity, traceability, and GxP compliance.
- Create and maintain data dictionaries, ontologies, and metadata standards for TRD projects.
- Map and analyze end-to-end business and technical processes across molecule, biologics, and device workflows.
- Build and apply process models using digital tools, including simulation software and workflow engines.
- Conduct scenario analyses to optimize efficiency, quality, and regulatory compliance, and present results to cross-functional teams.
- Drive digital transformation by implementing solutions (e.g., workflow automation, digital twins), supporting pilots, and leading change management for global adoption.

Essential Requirements:

- Master's in Data Science, Engineering, Pharmaceutical Sciences, Biologics, Computer Science, or related field.
- Programming skills in JavaScript, XML, HTML, Python or similar programming languages.
- Experience with machine learning and AI applications.
- Knowledge in data structures and databases (e.g. SQL) as well as process automations (like Power Apps or Power Automate).
- Strong analytical skills with excellent communication and collaboration in global teams.
- Fluent English

Desirable Requirements:

- Experience with data modeling and simulation tools.
- Familiarity with synthetic molecule/biologics development, packaging or device development processes is a plus.

- Fluent German and/or French is a plus.

You ' ll receive (for Austria only):

In addition to a market-competitive base salary, we offer an attractive incentive program, a modern company pension scheme, childcare facilities, learning and development opportunities as well as worldwide career possibilities within the Novartis group. In accordance with Austrian law, we are obliged to disclose the minimum salary as stated in the collective bargaining agreement. For this position the minimum salary is €47,532.24 a year (on a full-time basis). The actual salary will be significantly higher, as we strive to maintain a competitive position in the market and consider your previous experience, qualifications and individual competencies.

Commitment to Diversity & Inclusion:

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

Our recruitment decisions are based on selecting the best person for the job, regardless of gender, religion, age, color, race, sexual orientation, nationality or disability.

Accessibility and accommodation: (Switzerland)

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 e-mail to diversity.inclusionch@novartis.com, and let us know the nature of your request and your contact information. Please include the job requisition number in your message.

Adjustments for Applicants with Disabilities: (Austria)

If because of a medical condition, physical disability or a neurodiverse condition you require an adjustment during the recruitment process, please reach out to disabilities.austria@novartis.com and let us know the nature of your request as well as your contact information. The support which we can provide will include advice on suitable positions as well as guidance at all stages of the application process. Austrian law provides candidates the opportunity to involve the local disability representative, Behindertenvertrauensperson (BVP), in the application process. If you would like to request this, please let us know in advance as a note on your CV.

Application deadline: December 15 EOB.

Please submit your CV and a cover letter that includes your motivation for the position and from when you will be available.

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: Read our handbook to learn about all the ways we'll help you thrive personally and professionally: <https://www.novartis.com/careers/benefits-rewards>

部门

Development

Business Unit

Development

地点

Switzerland

站点

Basel (City)

Company / Legal Entity

C028 (FCRS = CH028) Novartis Pharma AG

Alternative Location 1

Schaftenau, Austria

Functional Area

Others

Job Type

Full time

Employment Type

Early Career (Fixed Term)

Shift Work
No

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