NOVARTIS

Associate Director, Data Science, data42 (Real World Data)

Job ID
REQ-10051894

5   19, 2025

Switzerland

Do you love data, tech and science? Are you excited about AI? Are you a team-player who inspires greatness in others? Do you want to find the answer to life, the universe and everything?

Join our data42 team!

At Novartis, we reimagine medicine by using the wealth of our internal data combined with advanced analytics. Our data42 platform provides us access to Novartis's high-quality, multi-modal preclinical and clinical data as well as external data such as RWD. It is the perfect environment to develop cutting edge AI/ML models and come up with health insights using the totality of the data. At data42, we are a global team of data scientists and data engineers dedicated to uncovering novel insights and to drive drug development pipeline decisions by leveraging the data42 platform.

About the Role

We are looking for an Associate Director-level Real World Data (RWD) Data Scientist with a strong technical background and an exploratory mindset to join our data42 data science team. Your role is to come up with innovative ideas using AI/ML approaches to mine the RWD on the platform and uncover hidden patterns that can lead to new insights about the patient population, biomarkers or drug targets, ultimately leading to new discoveries that can lead to faster development of life-changing medicines.

As data42 serves the R&D continuum at Novartis, you will work with colleagues in Biomedical Research to champion the use of RWD in discovery, as well as colleagues embedded in the later stages of drug development such as Medical Affairs to innovate on solutions using RWD.

This is a unique role, with plenty of opportunities to learn and apply cutting edge AI/ML/data science and technological solutions across Research and Development, to come up with health insights and reimagine medicine.

If you're excited about pushing the boundaries of health insights discovery using RWD and AI, this is the role for you!

Major accountabilities but not limited to:

- Define, lead and execute innovative methodologies such as using AI models to mine RWD on data42 for exploratory analysis.
- Co-create and execute innovative data analytics solutions with key stakeholders across R&D
- Stay abreast on emergent applications, trends and insights, and positively drive development of advanced analytic capabilities to ensure data42 continuously evolves as a well-recognized platform that addresses the ever-changing data and analytic environment
- Develop strong internal and external partnerships to promote effective collaborations. Lead by example in promoting a collaborative and entrepreneurial culture and mindset. Be an agent for change and engage support for innovative ideas, methods, technologies, partnerships, and solutions
- Support data science communities in Biomedical Research to think through research questions that can benefit from the use of RWD. This may include feasibility analysis and developing machine learning models to mine RWD for insights.
- Support project ideation with Medical Affairs stakeholders to execute a data and technology strategy through integrating access to multimodal data (e.g. real-world data, clinical data, genomics, biomarkers, imaging) to support real world evidence generation, and applying innovative methods, models (e.g. in-silico trials), and technology
- Excellent communicator and advocate for data-driven decision-making to align with Novartis' overall strategy and improve patient care outcomes.
- Represent data42 externally at conferences

Ideal background

- PhD or MD with a quantitative discipline like computer science, physics, statistics or epidemiology with experience across disease areas and proven track record in AI/ML
- 5-8 years in quantitative science roles, with good understanding of the entire product value chain within the pharmaceutical industry.
- Strong data science background with proficiency with SQL, Python, R, Jupyter Notebooks etc
- Proven track record in providing impact with RWD applying advanced analytics as well as AI/ML
- Experience with AI/ML techniques to uncover scientific insights such as novel biomarkers in omics or imaging data in RWD.
- Experience and knowledge in evidence generation, including analyzing clinical and real-world data, and understanding evidence generation study methodologies.
- Track record of leading projects or teams at a strategic level involving multiple stakeholder groups or research initiatives

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

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

Join our Novartis Network: Not the right Novartis role for you? Sign up to our talent community to stay connected and learn about suitable career opportunities as soon as they come up: https://talentnetwork.novartis.com/network

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

Biomedical Research

Business Unit
Pharma Research

Switzerland

Basel (City)

Company /Legal Entity
CO28 (FCRS = CHO28) Novartis Pharma AG

Functional Area
Data and Digital

Job Type
Full time

Employment Type
Regular

Shift Work
No

Apply to Job

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

Job ID
REQ-10051894

Associate Director, Data Science, data42 (Real World Data)

[Apply to Job](#)

Source URL:
https://www.novartis.com.cn/careers/career-search/job/details/req-10051894-associate-director-data-science-data42-real-world-data

List of links present in page

1. https://www.novartis.com/about/strategy/people-and-culture
2. https://talentnetwork.novartis.com/network
3. https://www.novartis.com/careers/benefits-rewards
4. https://novartis.wd3.myworkdayjobs.com/en-US/NovartisCareers/job/Basel-City/Associate-Director-Data-ScienceREQ-10051894-1
5. https://novartis.wd3.myworkdayjobs.com/en-US/NovartisCareers/job/Basel-City/Associate-Director-Data-ScienceREQ-10051894-1