NOVARTIS

Associate Director Data Science (Data Design & Clinical Innovation)

Job ID
REQ-10054749
Jun 25, 2025
Switzerland

Summary

The Associate Director, Data & AI leads the development of data and AI strategy, and activities focused on delivering value to programs in Novartis development. The AD will utilize their expertise in drug development, scientific knowledge and background on the disease and therapies, and technical leadership in data science and AI to drive and lead interdisciplinary collaborations and decision making for assigned projects.

Demonstrating high levels of independence in support of complex projects, they are responsible for collaborating with the clinical development team and members of the program team and across the organization more broadly, as well as identifying external partners to drive project execution by leveraging external innovation and resources.

Works with the function leads and teams in developing, leading and implementing key projects within the group and cross-functionally with partners efficiently and consistently to enable Development priorities and meet compliance standards.

May serve as on programs as a local manager of a small team or Individual contributor who is a thought leader with deep technical knowledge in data science, AI and machine learning, scientific knowledge and fluency, experience with drug development framework, stage gates and steps for advancing programs through registration..

Specifically, be the primary contact for data and AI, contributing to the data strategy, and support such projects in close collaboration with internal and external stakeholders e.g. program teams, clinical development teams, Precision Medicine, data42 and analytics.

About the Role

Major accountabilities:

- Lead data and AI projects for the Data Design & Clinical Innovation team
- Actively lead or participate in the identification of data gaps for scientific and clinical needs in clinical development in one or more therapeutic areas, and in the development and implementation of strategic solutions to these gaps for example:

- Evaluate the data quality from internal and external data sources for DDCI projects
- Collaborate with internal stakeholders to bring in external data to internal data platform
- Evaluate and implement AI solutions to improve the efficiency and effectiveness of clinical development

programs

- Collaborate with data science groups to support the implementation of use cases and help identify work flows and techniques that may be reproducible
- Bridges scientific, technical, and drug development expertise to engage with clinical leads in CD, program teams, disease units, analytics, regulatory and commercial for data science and AI approaches

- Partner with Analytics and other Data Science organizations to plan and implement training and coaching in order to drive a culture of data and AI literacy and innovations to drive clinical development success.
- Track data science and AI projects within DDCI requiring inputs and support
- Scope and evaluate data science and AI technology solutions for drug development
- Ensure data transformation and analysis specifications to ensure completeness, correctness and adherence to department guidelines and SOPs as well as to applicable GxP requirements

Minimum Requirements:

- PhD (essential), Post Doc (desired) in data science, biostatistics, computational biology, bioengineering or related field
- 7 years of involvement in clinical research or drug development in an academic or industry environment.
- 5 years of contribution to and accomplishment in all aspects of data science, in a global/matrix environment in pharmaceutical industry
- Demonstrated ability to establish strong scientific partnership with key stakeholders
- Thorough knowledge of GCP, clinical trial design, statistical analysis methodology, and regulatory/clinical development process
- Scientific background in basic and clinical research with good understanding and knowledge on drug development.
- Strong skills in leading and managing cross-functional projects with significant (visible) business impact.
- Proficient in Python, SAS, R, and R-shiny; Building machine learning models utilizing high performance computing (HPC) environments

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

Division
Development
Business Unit
Innovative Medicines
Location
Switzerland
Site

Basel (City)

Company / Legal Entity

C028 (FCRS = CH028) Novartis Pharma AG

Functional Area

Data and Digital

Job Type

Full time

Employment Type

Regular

Shift Work

No

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