Senior Expert Data Scientist (Oncology)

Job ID
REQ-10048429

4　18, 2025

USA

At data42, a division of Biomedical Research, our vision is to empower and inspire Novartis' research and development community in harnessing inter-connected multimodal internal and external data in a securely governed platform. We strive to accelerate additional research across a continuum of research, Clinical development and medical to unlock insights leading to the discovery and development of new medicines for patients.

About the Role

Data42 science delivery team is currently seeking a highly skilled individual to join our team as a Senior Data Science Expert. As an essential part of the team, you will collaborate with scientists in various disease and functional areas across the organization to advance research and drug development, specifically in our oncology programs.

With a focus on addressing unmet medical needs in oncology, your responsibilities will involve collaborating with other data42 scientists to design a comprehensive platform for our users and stakeholders to explore while ensuring proper governance.

If you are passionate about making a significant impact in medical research and are eager to join a dynamic and collaborative team, we encourage you to apply. There are numerous diseases with urgent medical needs, and our goal is to address these challenges and create a lasting impact on global healthcare.

Your responsibilities will include:

Major Accountabilities

- Leading projects and effectively communicating with stakeholders and collaborators.

- Actively participating in the design and development of clinical pipeline and customization of pooling trial data as needed to address important scientific questions, such as indication expansion.

- Independently designing, using, and improving bioinformatics tools and models that are specifically designed for integrating different types of data, enabling the exploration of various biological layers.

- Acting as a connector between valuable data resources and project teams, enhancing the generation of hypotheses by sharing insights derived from or applied to late-stage pipeline data.

Role Requirements

- Preferably PhD in quantitative field such as computer science, data science, mathematics, statistics, or physics. Experience working on problems in the life sciences is a plus.

- At least 2 years of professional experience in the pharmaceutical or clinical sector.

Experience in at least one of the following:

- Using biostatistics methods for inference and hypothesis testing, such as linear and logistic regression or Cox proportional hazard models, and leveraging clinical data for secondary analysis

- Track record of applying AI / deep learning to scientific data.

- Experience in using machine learning models to predict clinical endpoints using multimodal data.

- Experience with Python and R scientific stacks, track record of building custom scientific software using best practices (version control, testing, documentation).

- Demonstrated ability to present complex data science concepts in digestible terms to diverse scientific audiences.

- Demonstrated strong scientific curiosity, initiative, and learning agility.

- Ability to work as part of an interdisciplinary team, including biologists, chemists, and data scientists. Strong communication skills in verbal, written, and virtual formats.

- Experience identifying, curating, and integrating data from internal and external sources.

- Hands-on expertise and a proven track record in utilizing patient/clinical data to generate actionable hypotheses is desirable.

- Knowledge of computer programing language SPARK and Experience in using Foundry for data analysis are a plus.

Novartis Compensation and Benefit Summary: The pay range for this position at commencement of employment is expected to be between $114,100 and $211,900 per year; however, while salary ranges are effective from 1/1/25 through 12/31/25, fluctuations in the job market may necessitate adjustments to pay ranges during this period. Further, final pay determinations will depend on various factors, including, but not limited to geographical location, experience level, knowledge, skills and abilities. The total compensation package for this position may also include other elements, including a sign-on bonus, restricted stock units, and discretionary awards in addition to a full range of medical, financial, and/or other benefits (including 401(k) eligibility and various paid time off benefits, such as vacation, sick time, and parental leave), dependent on the position offered. Details of participation in these benefit plans will be provided if an employee receives an offer of employment. If hired,

employee will be in an "at-will position" and the Company reserves the right to modify base salary (as well as any other discretionary payment or compensation program) at any time, including for reasons related to individual performance, Company or individual department/team performance, and market factors.

You'll Receive: You can find everything you need to know about our benefits and rewards in the Novartis Life Handbook. https://www.novartis.com/careers/benefits-rewards

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

EEO Statement:

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Accessibility & Reasonable Accommodations

The Novartis Group of Companies are committed to working with and providing reasonable accommodation to individuals with disabilities. If, because of a medical condition or disability, you need a reasonable accommodation for any part of the application process, or to perform the essential functions of a position, please send an e-mail to us.reasonableaccommodations@novartis.com or call +1(877)395-2339 and let us know the nature of your request and your contact information. Please include the job requisition number in your message.

Biomedical Research

Business Unit
Innovative Medicines

USA

Massachusetts

Cambridge (USA)

Company / Legal Entity
U175 (FCRS = US175) Novartis Institutes for BioMedical Research, Inc.

Functional Area
Data and Digital

Job Type
Full time

Employment Type
Regular

Shift Work
No

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