Senior Expert Data Science - data42

Job ID
REQ-10061645

9   12, 2025

Ireland

Job Description Summary
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.

Data42 Data Science and Innovation 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 immunology programs.

With a focus on addressing open questions in immunology, your responsibilities will involve collaborating with other data42 scientists to help build a comprehensive platform for our users and stakeholders to make use of, 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.

About the Role

Your responsibilities will include:

- Leading projects and effectively communicating with stakeholders and collaborators.
- Actively participating in pooling and analyzing multimodal clinical trial data to address important scientific questions, such as target discovery, compound prioritization, disease progression and indication expansion, in close collaboration with teams from across Novartis.

- Develop and apply advanced ML and AI algorithms tailored to biomedical data, including deep learning models, to derive actionable insights from complex multimodal datasets.
- Acting as a connector between data resources and project teams, enhancing the generation of hypotheses by sharing insights derived from or applied to data from different drug development pipeline phases.

Role Requirements:

- PhD in data science, machine learning, bioinformatics, computational biology, or a related field, with substantial postdoctoral (or equivalent) experience in academia or the pharmaceutical industry.
- Proficiency in Python, PyTorch, high performance computing, and/or R for statistical programming.
- Proven experience in professional software development practices: code standards, code review, version control, continuous integration, testing.
- Understanding of biology or medicine, demonstrated experience in working with health-related data.
- Proficient in using biostatistics methods for inference and hypothesis testing. Experience with applying state-of-the-art Deep Learning methods.
- Demonstrated ability to work in a cross disciplinary team and present complex data science concepts in digestible terms to diverse scientific audiences.
- Demonstrated strong scientific curiosity, initiative, and learning agility.

Commitment to Diversity & Inclusion:

We are 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
Universal Hierarchy Node

Ireland

Dublin (NOCC)

Company / Legal Entity
IE02 (FCRS = IE002) Novartis Ireland Ltd

Functional Area
Data and Digital

Job Type
Full time

Employment Type
Regular

Shift Work
No

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