

Scientific Lead (Associate Director) Data Science for Cardiovascular, Renal, Metabolism (CRM)

Job ID
REQ-10034453

4月 30, 2025

USA

摘要

Do you love data and tech? 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. It is the perfect environment to develop cutting edge AI/ML models. 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.

As the CRM Scientific Lead (Cardio-Renal-Metabolic), you will be part of our Data42 Data Science function. You define, lead and execute projects that use our multimodal data to answer key scientific questions that the data42 platform is uniquely placed to solve. Ideally you have prior experience with

NGS and -omics data. You will collaborate with Scientists, Clinicians, Data Scientists in the Cardiovascular, Renal and Metabolism disease area and with our colleagues in the AICS (AI and Computer Science) team. You will lead a small team of data scientists in this hands-on role. Together with the Data42 engineering team you will deliver innovative projects with a high impact on our pipeline.

About the Role

Purpose of the role

- Define, lead and execute Data42 CRM projects by using the totality of our data
- Develop cutting-edge AI models
- Data42 point of contact for CRM project teams, Translational Data Science Clusters in Biomedical Research and beyond
- Coach and mentor BR Data Scientists in the use of the Data42 platform
- Define the CRM Data42 data strategy
- Guide the Data42 platform development
- Keep updated on the latest developments in the field of AI and Generative AI that could be applicable in CRM.

What you 'll bring to the role:

- 7-10 years of experience in biomedical research/drug discovery and development
- Education: PhD in Computer Science, Physics, Statistics or related quantitative field with proven track/record in ML/AI
- Understanding of disease biology preferred
- Solid scientific research background, demonstrated ability to ask and answer critical questions using AI/ML

- Track record of leading projects or teams at a strategic level involving multiple stakeholder groups or research initiatives
- Track record of rapidly upskilling in new subject areas to reach a high level of competence. Demonstrated a strong willingness to learn and step out of the comfort zone

Preferred Technical Skills

- Familiar with data standards e.g. CDISC SDTM, ADaM
- Machine Learning & Data Science: Supervised and unsupervised learning (Gaussian Mixture Models, DBSCAN, Random Forest, SVM), Deep learning (CNNs, RNNs, Transformers), Feature engineering, Dimensionality reduction (PCA, t-SNE, UMAP), Anomaly detection, A/B testing
- Big Data & Analytics: Time series analysis, High-dimensional data processing, Statistical modeling, Data visualization, Cloud computing (AWS)
- Programming & Tools: Python (NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch), SQL, MATLAB, Spark, Git, Docker
- Data Engineering: Data wrangling, SQL, model deployment and optimization

Novartis Compensation and Benefit Summary: The pay range for this position at commencement of employment is expected to be between \$166,300 and \$297,700 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:

The Novartis Group of Companies are Equal Opportunity Employers. We do not discriminate in recruitment, hiring, training, promotion or other employment practices for reasons of race, color, religion, sex, national origin, age, sexual orientation, gender identity or expression, marital or veteran status, disability, or any other legally protected status.

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.

部门

Biomedical Research

Business Unit

Pharma Research

地点
USA

状态
Massachusetts

站点
Cambridge (USA)

Company / Legal Entity
U014 (FCRS = US014) Novartis Pharmaceuticals Corporation

Functional Area
Data and Digital

Job Type
Full time

Employment Type
Regular

Shift Work
No

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