

AI Scientist

Job ID
REQ-10065530

10月 31, 2025

USA

摘要

About the role:

#LI:Hybrid

The Oncology Data Science team in Novartis Biomedical Research (NBR) provides computational biology, AI and data engineering expertise to the Oncology Disease Area across a wide and unique range of novel therapeutics spanning many different drug modalities. Our mission is to harness the transformative power of data and AI to accelerate the development of innovative and transformative medicines for oncology patients worldwide.

We are seeking an enthusiastic AI/ML scientist with curiosity about pre-clinical and clinical drug development to help us accelerate our ground-breaking oncology drug discovery programs. You will join the Oncology Data Science team at NBR Oncology, an outstanding collaborative environment with supportive and enthusiastic colleagues who will help your AI models achieve real-world impact.

About the Role

Key responsibilities:

- Design, develop, implement and apply advanced machine learning algorithms, AI models, and platforms to enable the delivery of predictive insights from pre-clinical, clinical and real-world evidence datasets.
- Demonstrate value of innovative AI techniques in the context of drug target identification, biomolecular interaction modeling, drug development, biomarker discovery, treatment response prediction and clinical trial design.
- Work with foundational models, including pre-trained, self-supervised, multi-purpose, and multi-modal models to advance generative AI applications in drug discovery.
- Collaborate with cross-functional teams to develop and adopt best practices for ML-ready data.
- Contribute to scientific publications and present results at internal and external scientific conferences.

Minimum Requirements:

- This position will be located at either the Cambridge, MA or Basel, Switzerland site and will not have the ability to be located remotely. This position will require 0-3% travel as defined by the business (domestic and/ or international).
- MSc or Ph.D. in Machine Learning, Computer Science, Applied Mathematics, Computational Biology or related field; PhD preferred.
- Minimum of 0-3 years of experience.
- Strong experience in one or more of the following areas: generative AI, agentic AI, biomedical foundation models, geometric deep learning, multi-modal learning, and large-scale knowledge graphs.
- Excellent programming skills and proficiency in deep learning frameworks (PyTorch), with openness to learning new tools and technologies.
- Practical experience across ML and Large Language Models (LLMs) software stack, including feature engineering, model development, deployment, and validation.
- Prior experience working with omics data and familiarity with oncology drug development.
- Excellent communication skills, with the ability to communicate complex data insights and recommendations to cross-functional teams and stakeholders.
- Demonstrated strong research skills, evidenced by publications in top-tier machine learning or artificial intelligence conferences and/or leading scientific journals.

The salary for this position is expected to range between \$103,600 and \$192,400 per year.

The final salary offered is determined based on factors like, but not limited to, relevant skills and experience, and upon joining Novartis will be reviewed periodically. Novartis may change the published salary range based on company and market factors.

Your compensation will include a performance-based cash incentive and, depending on the level of the role, eligibility to be considered for annual equity awards.

US-based eligible employees will receive a comprehensive benefits package that includes health, life and disability benefits, a 401(k) with company contribution and match, and a variety of other benefits. In addition, employees are eligible for a generous time off package including vacation, personal days, holidays and other leaves.

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>

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部门
Biomedical Research

Business Unit
Universal Hierarchy Node

地点
USA

状态
Massachusetts

站点
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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