

Clinical Data Engineering Lead

Job ID REQ-1	0064031

10月 16, 2025

USA

摘要

About the role:

#LI:Onsite

Are you ready to make a lasting impact by building the future of oncology research? Novartis Biomedical Research (NBR) is searching for a visionary Associate Director to lead Clinical Data Engineering within our Oncology Data Science (OncDS) team. In this pivotal role, you'll be at the forefront of shaping early clinical development by building innovative biomarker data infrastructure, championing translational research, unlocking Al-powered discoveries, and raising the bar for operational excellence in biomarker data and multimodal analytics across Novartis' oncology trials.

About the Role

Key responsibilities:

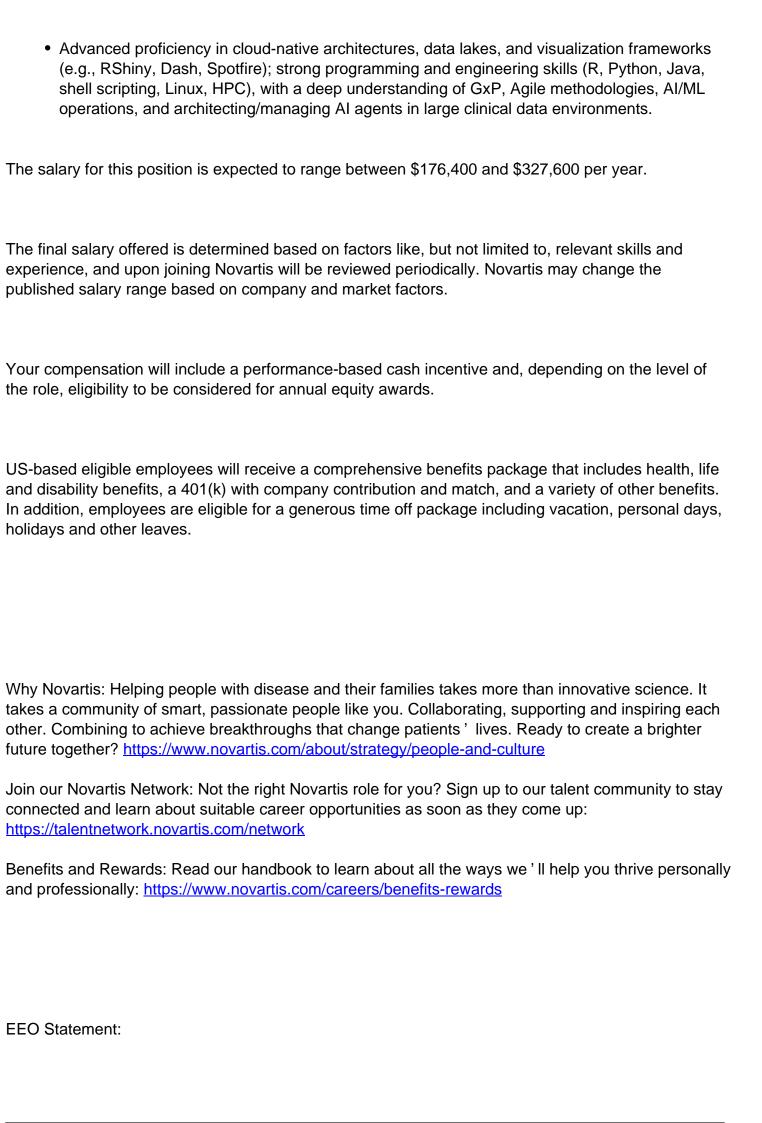
- Define and implement the clinical data engineering roadmap in alignment with Novartis' data and digital strategy, collaborating with SMEs and OncDS leadership.
- Integrate advanced tools and AI/ML-ready infrastructure to support predictive modeling, multimodal analytics, and real-world data applications.
- Align clinical and pre-clinical data engineering initiatives with the broader oncology strategy.
- Lead, manage, and develop a high-performing clinical data engineering team, fostering collaboration and growth.
- Drive strategic initiatives and partnerships across a matrixed organization.
- Oversee data ingestion, transformation, and validation processes for clinical trial data, ensuring compliance with GCP/GxP, CDISC, and SOPs.
- Collaborate with CROs and internal teams to optimize data flow, versioning, and retention policies.
- Build and optimize data pipelines for both structured and unstructured clinical data to enable advanced analytics and informed decision-making.
- Deploy scalable solutions for data harmonization, metadata management, and interoperability across platforms such as Foundry, Domino, Snowflake, and POSIT Connect.
- Develop and manage applications and visualization tools, contributing to novel data products that support clinical decision-making and enable Al-driven initiatives in oncology trials.

Essential Requirements:

- This position will be located at the Cambridge, MA 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).
- Master's degree in computer science, Bioinformatics, Data Engineering, Software Engineering or a closely related discipline; PhD preferred.
- Minimum 10 years of hands-on experience architecting and managing clinical data engineering, data management, and bioinformatics solutions in pharmaceutical or biotechnology industry.
- Demonstrated expertise in designing, implementing, and scaling data infrastructure to support clinical development-including Artificial Intelligence (AI) / Machine Learning (ML) -driven analytics and multimodal data integration.
- Proven ability to define, document, and operationalize end-to-end assay data generation and processing pipelines, with a focus on automation, orchestration, and compliance.
- Extensive experience with oncology clinical trials, including regulatory-compliant management
 of clinical biomarker data and application of data standards (e.g., Clinical Data Interchange
 Standards Consortium [CDISC], Study Data Tabulation Model [SDTM], Analysis Data Model
 [ADaM]).
- Deep familiarity with FAIR (Findable, Accessible, Interoperable, Reusable) data principles, data harmonization, and enterprise data governance frameworks.
- Strong leadership in technical teams, with advanced communication and stakeholder management skills.

Desirable requirements:

 Extensive experience leading cross-functional data science initiatives in oncology, including translational science, biomarker analysis, real-world data, and exploratory clinical research; proven expertise with NGS technologies, and modern bioinformatics tools.



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部门 Biomedical Research

Business Unit Universal Hierarchy Node

地点 USA

状态 Massachusetts

站点 Cambridge (USA)

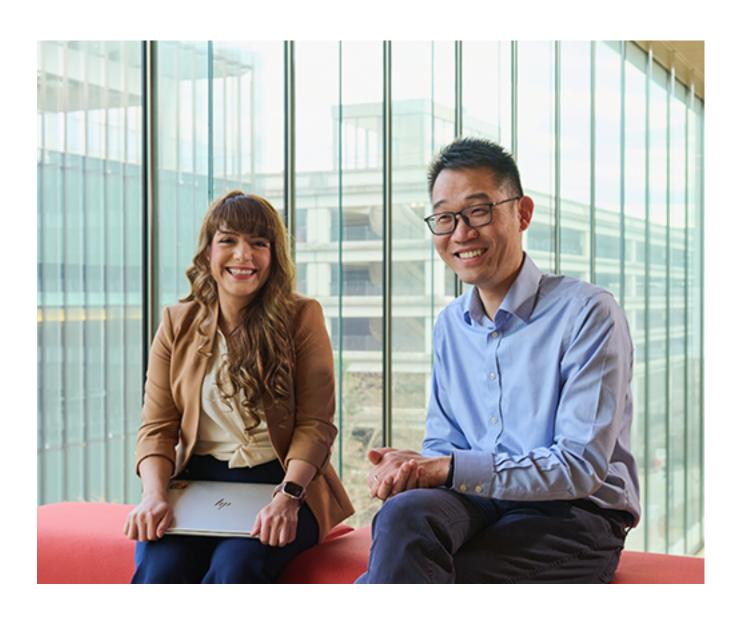
Company / Legal Entity U175 (FCRS = US175) Novartis Institutes for BioMedical Research, Inc.

Functional Area Data and Digital

Job Type Full time Employment Type Regular

Shift Work No

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