

Senior Expert II Data Scientist in Translational Medicine

Job ID

REQ-10074039

Mar 26, 2026

LOC_IN

About the Role

Job Description

As a member of the Quantitative Sciences & Innovation (QSI) unit in Biomarker Development, you will join Novartis' clinical trial teams to speed new medicines into the clinic across one of the industry's largest and most innovative portfolios. By integrating high-throughput biomarker technologies from First in Human through Phase III clinical trials, you will investigate disease heterogeneity, drug efficacy, and patient safety at molecular resolution to advance trials in new indications and patient populations. You are a passionate and curious scientist, eager to bring creative solutions to biology's most daunting challenges on our journey to reimagine medicine. Working alongside dedicated physicians and biomarker scientists in a global multi-disciplinary team, our Data Scientists provide the analytical insights that drive Translational success.

Your responsibilities will include:

- Conceive, design, and execute exploratory analyses as Lead Data Scientist across First in Human, Phase I-III clinical trials, applying advanced analytical methods as required.
- Participate in and lead cross-functional biomarker collaborations with Discovery and Development partners to support target selection, clinical development, and registration activities.
- Provide subject matter expertise for high-dimensional clinical data (genetics, omics, digital, and/or imaging) and analysis solutions to inform disease characterization, patient stratification and enrichment strategies.
- Contribute to shaping the Novartis' data and digital strategy by adhering to rigorous data engineering principles to unlock AI-powered discoveries.
- Work expeditiously as a member of matrixed clinical trial teams with diverse membership and expertise.

Minimum requirements

What you will bring to the role:

- PhD, MD or equivalent experience in computational biology, bioinformatics, statistical genetics, biostatistics, applied machine learning or AI, data science or related field.
- Three or more years of experience in analyzing large-scale biological datasets in a drug discovery/development or relevant academic setting.
- Expert knowledge of statistical programming in R and Bioconductor. Proficiency with Unix/Bash, Python, or similar scripting language a must.
- Strong grasp of human genomics and next generation sequencing technologies, including experience implementing reproducible and scalable pipeline workflows in an HPC or Cloud environment.
- Previous experience in single-cell and/or spatial transcriptomics data analyses, including TCR/BCR repertoire analysis at bulk and/or single-cell level.
- Experience and knowledge of integrative methods to derive biological insights jointly from transcriptomics, proteomics and spatially resolved single-cell data.
- Strong understanding of biostatistics and machine learning, including longitudinal analysis.
- Solid understanding of relevant clinical data standards (CDISC), GCP/GxP compliance considerations and working along SOPs.
- Experience with generative coding assistants, copilots and developer tools highly desirable.

- Strong communication skills and ability to lead effective collaborations with cross-functional global scientific teams.

Why consider Novartis?

750 million. That's how many lives our products touch. And while we're proud of that fact, in this world of digital and technological transformation, we must also ask ourselves this: How can we continue to improve and extend even more people's lives?

We believe the answers are found when curious, courageous, and collaborative people like you are empowered to ask new questions, make bold decisions, and take smart risks.

We are Novartis. Join us and help us reimagine medicine.

Division

Biomedical Research

Business Unit

Translational Medicine

Country

India

Work Location

Hyderabad

Company/Legal Entity

Novartis Pharma AG

Functional Area

Research & Development

Job Type

Full Time

Employment Type

Regular

Role Requirements

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>

Benefits and Rewards: Learn about all the ways we'll help you thrive personally and professionally.

[Read our handbook \(PDF 30 MB\)](#)

Division

DIV_RE

Business Unit

Research

Location

LOC_IN

Site

Hyderabad (Office)
Company / Legal Entity
IN10 (FCRS = IN010) Novartis Healthcare Private Limited
Functional Area
FCT_DD
Job Type
Full time
Employment Type
Regular
Shift Work
No
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