

# Senior Data/Software Engineer

Job ID  
REQ-10017217  
Jul 26, 2024  
India

## Summary

data42 is Novartis' ground-breaking initiative that harnesses the power of R&D data in one of the largest and most diverse datasets in the pharmaceutical industry to reimagine medicine. data42 applies machine learning, artificial intelligence, and sophisticated analytics to generate new insights that increase our understanding of disease and medicines, improve R&D decision-making and ultimately reimagine drug discovery and development. And to take this a step further, we are expanding data42 to create a first-of-its-kind, diverse ecosystem.

A key aspect of the program is to centralize all clinical data collected across Novartis clinical studies to enable secondary research involving clinical trials data. To achieve this goal, a data pipeline has been implemented including tools, parallelized and complex metadata-driven data transformation, powered by Artificial Intelligence to accelerate the generation of this Clinical Data Warehouse. The position is a key collaborator within the Clinical Data Engineering team to develop/maintain this Clinical Pipeline technology using DevOps methodology overseen by the Clinical Data Pipeline Owner and his Technical Leader.

## About the Role

### Major accountabilities:

- Responsible for Data Engineering, Foundry Data Pipeline Creation, Foundry Analysis & Reporting, re-usable code development & management and Integrating Novartis Internal or External System with Foundry for data ingestion with high quality
- Responsible to develop front-end applications using Workshop & Slate framework provided by Foundry according to Clinical Data Pipeline Owner specifications
- Working closely with Clinical Data Engineering team and his Technical Leader to coordinate Clinical Pipeline data engineering requirements
- Have good understanding on Foundry Platform landscape and it's capabilities
- Evaluate and validate new Foundry platform features and align with the Clinical Pipeline architecture team to realize / enable tech spikes on the foundry platform
- Development of custom Foundry App on Palantir Platform
- When required, collaboration with data scientists, data analyst and technology teams to document and leverage their understanding of the Foundry integration with different data sources - Actively participate in agile work practices
- Coordinating with Quality Engineer to ensure the all quality controls, naming convention & best practices have been followed
- Participate to PoC development and leverage them to an industrialized product

**Key performance indicators:**

- Delivery of data/software engineering activities in a timely manner for the program.
- Execute CI/CD DevOps principles and maintain technical documentation of any new development.
- Apply Quality Engineering principles to ensure high quality delivery

**Job Dimensions:**

Impact on the organization: Responsible for the development and maintenance of Clinical Data Pipeline and PoC with high quality & agility; supporting during industrialization of Clinical Pipeline products;

**Minimum Requirements:**

**Education:** Bachelor's/Master's degree in Computer Science, Applied Mathematics, Engineering, or any other technology related field; equivalent of the same in working experience may also be accepted

**Work Experience:**

- 6+ years IT experience, 4+ years' experience in Big Data platform
- Able to design and implement data integration between different data platforms
- Hands-on experience in AWS cloud platform and stack
- Hands-on in programming languages primarily Java, Python, Unix shell scripts, PySpark, Spark
- Strong in API based architecture and concept, able to do quick PoC using API integration and development
- Strong knowledge of DevOps tools (Artifactory, CI/CD Frameworks)
- Strong knowledge in front-end/back-end development
- Software engineering experience (versioning, Scrum, testing, collaboration good practices)
- Strong troubleshooting and problem-solving skills
- Strong experience building big data applications and pipelines.
- Hands-on experience on Palantir Foundry Platform using Code Repository, Code Workbook, Data Connection, Workshop, Slate, etc. components and Foundry custom Apps development
- Ideally AI/ML knowledge and hands-on experience

**Skills:**

- Back-End Development.
- Code Analysis.
- Device Drivers.
- Distributed Computing.
- MVVN (Model View Model).
- OOD (Object-Oriented Design).
- Data Wrangling.
- Software Design.
- Software Documentation.
- Software/Data Engineering.
- Software/Data Testing.
- Palantir Foundry.
- Typescript.
- Unit Testing.

## Languages :

- Fluent English (Oral and Written)

**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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Division

Biomedical Research

Business Unit

Pharma Research

Location

India

Site

Hyderabad (Office)

Company / Legal Entity

IN10 (FCRS = IN010) Novartis Healthcare Private Limited

Functional Area

Research & Development

Job Type

Full time

Employment Type

Regular

Shift Work

No

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Novartis is committed to building an outstanding, inclusive work environment and diverse teams' representative of the patients and communities we serve.

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