

Principal Developer, Technology and Scientific Computing

Job ID

REQ-10042877

May 22, 2025

India

Summary

The Principal Developer will work as part of an interdisciplinary team to develop solutions and tools that enable associates working on analyses and reporting activities in clinical trials. They will work across Advance Quantitative Sciences (AQS) to gain an appreciation of the user experience today and work with Product Owners to deliver progress in high impact areas. This role will focus on enabling the use of open-source tools across the spectrum of activities in AQS.

About the Role

Key Responsibilities

- Design and implement intuitive, user-friendly interfaces for clinical trial stakeholders using modern front-end frameworks
- Collaborate with statistical engineers to integrate R-based tools into scalable web applications
- Develop and maintain efficient databases to manage user activity and application artifacts
- Build and deploy complex analytical web applications with robust client-server state management
- Implement secure authentication and page routing for enterprise-grade applications
- Create and maintain automated end-to-end testing within a CI/CD pipeline
- Engage with end users to gather feedback and translate needs into technical solutions
- Identify and drive continuous improvement opportunities in product design and development
- Ensure adherence to best practices in software development, including agile methodologies and code reviews
- Contribute to solving complex technical challenges with a solution-oriented mindset

Essential Requirements

- Bachelor's or Master's degree in computer science, statistics, mathematics, or a related quantitative field
- Minimum 3 years of experience developing and deploying impactful software applications
- Strong proficiency in HTML, JavaScript, CSS, and React for front-end development
- Skilled in Python for back-end development and RESTful API design using frameworks like Flask or Django
- Experience with modern testing tools and CI/CD automation (e.g., Cypress, Jest, Mocha)
- Proficient in database design and management using PostgreSQL or similar systems
- Familiarity with containerization tools such as Docker and orchestration platforms like Kubernetes
- Strong communication skills and a collaborative, solution-oriented mindset

Desirable Requirements

- Experience using R and R Shiny for data visualization and analytical applications
- Understanding of regulatory standards such as GxP and principles of computer system validation

Why Novartis:

Our purpose is to reimagine medicine to improve and extend people's lives and our vision is to become the most valued and trusted medicines company in the world. How can we achieve this? With our people. It is our associates that drive us each day to reach our ambitions. Be a part of this mission and join us! Learn more here: <https://www.novartis.com/about/strategy/people-and-culture>

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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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Division

Development

Business Unit

Innovative Medicines

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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