

# Assoc. Dir. DDIT IES Cloud Engineering

Job ID  
REQ-10023832  
Oct 11, 2024  
India

## Summary

Responsible for designing and developing a cutting-edge AI and Generative AI infrastructure on AWS platform, tailored for pharmaceutical business use-cases. The platform will facilitate pharma research scientists and other business users for early molecule development and other research activities by providing robust, scalable, and secure computing resources.

## About the Role

### Major accountabilities:

- **Architect and Design:** Lead the design and architecture of an AWS-based AI infrastructure platform, with a focus on supporting Generative AI workloads and advanced analytics for pharma business use-cases.
- **Platform Development:** Develop and deploy scalable AI solutions, leveraging AWS's suite of services, including AWS Bedrock, Q, SageMaker, App Studio and AI Infrastructure tools.
- **Data Management:** Oversee the design and implementation of data storage, retrieval, and processing pipelines, ensuring the efficient handling of large datasets, including genomic and chemical compound data.
- **Security and Compliance:** In collaboration with cloud domain security architects, implement robust security measures and ensure compliance with relevant industry standards, particularly in handling business sensitive data.
- **Collaboration:** Work closely with data scientists, research scientists, and other business stakeholders to understand their needs and translate them into technical solutions.
- **Performance Optimization:** Optimize the performance and cost-efficiency of the platform, including monitoring and scaling resources as needed.
- **Innovation:** Stay updated with the latest trends and technologies in AI and cloud infrastructure, continuously exploring new ways to enhance the platform's capabilities.
- Guide customers in the installation and use of strategic products through education, guidance and user manuals.
- Help to drive architectural improvements and standardization of Cloud environments
- Develop and enhance automated DevOps processes to release new solutions into the live environment.
- Ensure controls are in place for all configuration items and only authorized changes are made for all assets within enterprise IT environment.

### Key performance indicators:

- Delivery on agreed KPIs including business impact.
- Launch of innovative technology solutions across Novartis at scale.

- Business impact and value generated from Cloud solutions.
- Adoption and development of Agile, Productization and DevSecOps practices.
- Operations stability and effective risk management.
- Feedback on customer experience.

### **Minimum Requirements:**

#### **Work Experience:**

- Bachelor's degree in Information Technology, Computer Science, or Engineering.
- 8+ years of strong technical hands-on experience of delivering infrastructure and platform services across geographic and business boundaries
- Minimum 5+ years' of technical hands-on experience in AWS Solution Architect / Design Expert role for large enterprises
- Deep understanding of Architecture and Design of Platform Engineering products with focus mainly on Data science/ML compute products, Cognitive, (Gen)AI, etc.
- Extensive experience in building infra solutions on AWS, particularly with services like AWS Bedrock, Amazon Q, SageMaker, App Studio, Machine Learning and ECS/EKS
- Proficiency in AI and Machine Learning frameworks (TensorFlow, PyTorch, Keras) and familiarity with model deployment and operationalization (MLOps).
- Solid hands-on experience in Generative AI techniques, including Natural Language Processing (NLP), Generative Adversarial Networks (GANs), and transformer models.
- Good understanding of data engineering, including ETL processes, data warehousing, and working with both structured and unstructured data.
- Knowledge of containerization and orchestration technologies, such as Docker and Kubernetes.
- Experience with DevOps practices and tools, including CI/CD pipelines, infrastructure as code (IaC), and monitoring solutions.
- Excellent skills in collaborating with business users, Product team, Operationalizing the delivered products, working closely with Security for implementing compliance, close interaction with Cloud operations team for provisioning Azure services.
- Good knowledge on implementing well defined & industry standard Change management process for platform & its products. Have a well-structured Use-case onboarding process. Should ensure to have documentation for Platform products and implementations done.
- Experience with DevOps Orchestration/Configuration/Continuous Integration Management technologies
- Good understanding of High Availability and Disaster Recovery concepts for infrastructure
- Ability to analyze and resolve complex infrastructure resource and application deployment issues

#### **Skills:**

- Technical Leadership
- DevOps, CI/CD
- AWS Solution Architect certification – professional
- Scrum Methodology
- Agile Software Development
- System integration and Built
- Problem solving / Root Cause Analysis
- Cloud services monitoring & cost optimization
- Business Partnering.
- Agile Project Management.

#### **Languages :**

- English.

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Division

Operations

Business Unit

CTS

Location

India

Site

Hyderabad (Office)

Company / Legal Entity

IN10 (FCRS = IN010) Novartis Healthcare Private Limited

Alternative Location 1

Prague, Czech Republic

Functional Area

Technology Transformation

Job Type

Full time

Employment Type

Regular

Shift Work

No

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