NOVARTIS

GenAI Solution Architect

Job ID
REQ-10062668

10 10, 2025

Spain

At Novartis, we are harnessing the power of Generative AI (GenAI) to reimagine medicine and transform how we discover, develop, and deliver treatments for patients worldwide.

As part of the DDIT Advanced Platforms & Data (APD) organization, the AI Platforms team is expanding to meet growing business demand.

The Associate Director, GenAI Architect will play a pivotal role in designing and delivering enterprise-grade GenAI solutions, with a strong focus on scalability, compliance, and business value. Based in Barcelona, this role will support global initiatives and work closely with senior leaders across APD and DDIT (Data, Digital & IT).

About the Role

Key Responsibilities:

- Solution Architecture & Delivery
    - Define and deliver scalable AI solutions across discovery, development, regulatory, and commercial functions.
    - Create and maintain reference architectures, reusable components, and best practices for GenAI adoption.
- Business Partnership
    - Engage with business stakeholders to identify high-value use cases and translate requirements into technical solutions.
    - Act as a trusted advisor for GenAI solutioning across India and global teams.
- Governance & Compliance
    - Ensure alignment with responsible AI practices and compliance with HIPAA, GDPR, GxP, and EU AI Act.
    - Embed security, transparency, and fairness principles into all architectures.
- Innovation & Ecosystem Engagement
    - Evaluate and integrate new LLM models, frameworks, and orchestration tools (OpenAI, Anthropic, Llama, LangChain, LlamaIndex, DSPy).
    - Partner with startups, academia, and vendors to bring cutting-edge GenAI innovation to Novartis.
- Leadership & Mentorship
    - Provide technical guidance to solution teams and build GenAI capability within the India hub.
    - Collaborate with peers across Novartis to ensure global consistency and scalability.

Minimum Requirements:

- Bachelor's / Master's degree in Computer Science, Data Science, AI/ML, or equivalent.
- 12+ years in enterprise IT/solution architecture, including 4+ years in AI/ML and 2+ years in GenAI.
- Experience in pharma, life sciences, or healthcare industry highly preferred.
- Hands-on knowledge of LLMs, vector databases, RAG, and multi-agent systems.
- Proven ability to design solutions across multi-cloud environments (Azure AI Foundry, AWS Bedrock).
- Strong familiarity with regulatory frameworks and AI governance.

Accessibility and accommodation: Novartis is committed to working with and providing reasonable accommodation to all individuals. If, because of a medical condition or disability, you need a reasonable accommodation for any part of the recruitment process, or in order to receive more detailed information about the essential functions of a position, please send an e-mail to and let us know the nature of your request and your contact information. Please include the job requisition number in your message

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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Benefits and Rewards: Learn about all the ways we'll help you thrive personally and professionally. Read our handbook (PDF 30 MB)

Operations

Business Unit
Information Technology

Spain

Barcelona Gran Vía

Company / Legal Entity
ES06 (FCRS = ES006) Novartis Farmacéutica, S.A.

Functional Area
Technology Transformation

Job Type
Full time

Employment Type
Regular

Shift Work
No

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