NOVARTIS

Director of AI Architecture & Applied AI, Drug Development

Job ID
REQ-10091017
Ноя. 18, 2026
Испания

Сводка

#LI-Onsite

Internal job title: Director – AI Architect - DDIT DEV DATA ANALYTICS DSAI

Location: Barcelona, Spain or Hyderabad, India

Relocation support may be considered for the right.

Help shape the future of AI in Drug Development at Novartis. As Director of AI Architecture and Applied AI, you will define enterprise-scale architecture that moves AI beyond isolated solutions and enables reusable, secure and context-aware capabilities across the organisation.

This is a hands-on technical leadership role for an architect who can combine current agentic and generative AI expertise with enterprise thinking, architecture governance and senior stakeholder influence. You will help build the foundations that allow AI systems to reason over trusted enterprise context and interact safely with tools, data and business processes.

About the Role

Key responsibilities

- Define the enterprise AI target architecture, reference patterns, standards and technology roadmap for Drug Development.
- Design agentic AI and multi-agent architectures covering reasoning, planning, orchestration, tool use, memory, agent-to-agent communication and human oversight.
- Translate business problems and use cases into scalable enterprise AI capabilities rather than isolated, solution-specific implementations.
- Design semantic and context layers using ontologies, metadata, knowledge graphs and context engineering to make structured and unstructured information usable by people and machines.
- Establish reusable patterns for RAG, GraphRAG, enterprise search, grounding, provenance, citations and integration through APIs, MCP and AI gateways.
- Guide architecture across enterprise AI platforms, foundation and domain models, multimodal AI, model routing and cloud services, including AWS-based agentic capabilities.
- Lead architecture governance through the AI Architecture Review Board, ensuring solutions are interoperable, secure, scalable, compliant and aligned with enterprise standards.
- Drive AI industrialisation through LLMOps, MLOps and AgentOps practices, including CI/CD, evaluation, observability, reliability, scalability and cost optimisation.
- Influence senior business, Data Science, Engineering, Platform, Enterprise Architecture, Security and external stakeholders, while developing the technical capability of the wider team.
- Evaluate emerging AI technologies and promote trusted, reusable AI across clinical, regulatory and scientific workflows.

Essential requirements

- Significant experience in AI development and architecture, including recent hands-on work designing generative AI and agentic AI solutions in enterprise environments.
- Demonstrated experience defining enterprise AI architecture, reusable patterns and architecture governance beyond individual projects or point solutions.
- Practical experience with AI agents, multi-agent orchestration, foundation models, cloud AI platforms and enterprise integration patterns.
- Experience working with semantic or context layers, including ontologies, knowledge graphs, semantic models and management of unstructured data.
- Strong knowledge of AI engineering and operations, including Python, modern AI/ML frameworks, LLMOps, MLOps or AgentOps, CI/CD, evaluation and observability.
- Ability to lead through technical authority, collaborate across internal and external teams and influence senior business and technology stakeholders.
- Strong understanding of Responsible AI, security, privacy, access controls, governance, compliance and auditability.
- Bachelor’s or Master’s degree in Computer Science, Artificial Intelligence, Data Science, Bioinformatics or a related discipline, or equivalent relevant experience.

Desirable requirements

- AI architecture experience within pharmaceutical Drug Development, biotech, life sciences or another complex regulated environment.
- Experience with AWS Bedrock or comparable cloud AI services, enterprise Claude offerings, Azure AI/OpenAI, Google Vertex AI, MCP, RAG or GraphRAG.

Benefits and rewards

At Novartis, we're committed to reimagining medicine together and rewarding the people who make it happen.

Expected annual base salary range for this role: €78,500 to €145,900.

The base salary offered is determined based on gender-neutral objectives, such as relevant skills, competencies and experience, in accordance with the Novartis pay-setting policy, and will be reviewed periodically after joining Novartis.

In addition to base salary, you may be eligible for a performance-based bonus depending on certain performance parameters. Long-term equity awards granted at group level may also be part of your package. Further details will be provided during the application process.

The rewards of being part of our team go far beyond base pay and incentives. We offer competitive benefits to help you thrive personally and professionally, including a company pension plan, life and accident insurance, meals, allowance or office canteen arrangements, flexible working hours, wellbeing resources, global recognition programmes and a minimum of 14 weeks' paid parental leave.

Pay equity is a fundamental principle of our employment policy and reflects our commitment to create a diverse, equitable and inclusive environment that treats all employees with dignity and respect, as outlined in our Code of Ethics.

Benefits and compensation may vary by country and are subject to local legal requirements, including applicable collective bargaining agreements. A full overview of the compensation package will be communicated separately during the application process.

Commitment to diversity and inclusion

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

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)

Primary location salary range
€78,500.00 - €145,900.00
Дивизион
Operations
Business Unit
Information Technology
Место
Испания
Сайт
Barcelona Gran Vía
Company / Legal Entity
ES06 (FCRS = ES006) Novartis Farmacéutica, S.A.
Functional Area
Data and Digital
Job Type
Full time
Employment Type
Regular
Shift Work
No

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