

# Senior Expert Data Science & AI (Low Molecular Weight Drug Discovery)

Job ID  
REQ-10081176  
Июн. 30, 2026  
Индия  
Available in: English

## Сводка

Job Title: Senior Expert Data Science & AI (Low Molecular Weight Drug Discovery)  
#LI-Hybrid

Location: Hyderabad, India

Relocation Support: Yes

Step into a role where cutting-edge AI meets life-changing science—drive breakthroughs in drug discovery by shaping how intelligent systems design the next generation of therapeutics. As a Senior Expert in Data Science & AI, you will lead the development and application of advanced AI methodologies to accelerate low molecular weight drug discovery, collaborating with world-class scientists to transform complex biomedical challenges into innovative, data-driven solutions that ultimately improve patient outcomes.

## About the Role

### Key Responsibilities

- Lead technical strategy for artificial intelligence in low molecular weight drug discovery programs.
- Evaluate emerging model landscapes and identify opportunities for methodological innovation with measurable scientific impact.
- Design, build, and benchmark algorithms, models, and workflows for hit generation and lead optimization.
- Translate model performance into decision-ready metrics that improve prioritization, assays, and experimental efficiency.
- Partner with engineering and product teams to deliver scalable artificial intelligence solutions into research workflows.
- Collaborate with scientists across medicinal chemistry, structural biology, and disease biology to accelerate design-test-learn cycles.
- Advance automation by developing agentic workflows for computer-aided drug design pipelines.
- Guide model robustness and performance with strong validation and close alignment to experimental follow-up.
- Drive high-value collaborations across Biomedical Research and strengthen artificial intelligence adoption across research teams.
- Communicate progress, insights, and portfolio impact to leadership to position artificial intelligence as a discovery accelerator.

### Essential Requirements

- 4+ years of experience in machine learning innovation, development, deployment, and model lifecycle management.
- Proven experience applying machine learning to drug discovery, including generative models and molecular design.
- Strong proficiency in Python and deep learning frameworks for model development and experimentation.
- Solid understanding of version control systems such as Git for collaborative software development.
- Demonstrated expertise in structure-based drug design, including docking, scoring, and pose evaluation.
- Experience integrating artificial intelligence models with experimental workflows in lab-in-the-loop environments.
- Ability to design robust, validated models with clear connections to downstream scientific decision-making.
- Strong collaboration, problem-solving, and communication skills in complex, matrixed environments.

### Desirable Requirements

- Experience working in large global pharmaceutical or biomedical research organizations with complex data ecosystems.
- Awareness of emerging artificial intelligence methodologies such as foundation models, explainability, and geometric deep learning.

### 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.

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**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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Data and Digital  
Job Type  
Full time  
Employment Type  
Regular  
Shift Work  
No

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