

## OpenText Al for life sciences

Unlock innovation and efficiency throughout the drug development value chain



Generative artificial intelligence (GenAI) is helping drive a technological transformation in the pharmaceutical industry. Beyond the positive impact on drug discovery, GenAI can play a pivotal role in equipping organizations to boost innovation, increase operational agility, and gain new visibility into manufacturing processes.

Top reasons for pharmaceutical companies to adopt GenAl:

- Accelerated drug discovery: GenAl models can analyze vast molecular datasets to identify promising compounds in days rather than months, dramatically shortening time-to-market while reducing R&D costs.
- Improved manufacturing intelligence: Real-time process monitoring through GenAl enables predictive maintenance, reduces downtime, and ensures consistent quality across production facilities.
- Automated regulatory compliance: Al-powered systems can continuously monitor changing regulations, automatically flagging potential compliance issues and suggesting appropriate documentation adjustments.
- Advanced personalized medicine: GenAl facilitates analysis of genetic, clinical, and lifestyle data to develop targeted therapies tailored to specific patient populations, improving treatment efficacy.
- Resilient supply chains: Predictive GenAl models identify potential disruptions before they occur, allowing pharmaceutical companies to implement contingency plans and maintain reliable product supply.
- Optimized clinical trials: All algorithms can identify ideal patient candidates, predict trial outcomes, and detect safety signals earlier, reducing development timelines and costs.
- Enhanced knowledge management: GenAl systems transform unstructured data across research papers, internal documents, and clinical notes into actionable insights, democratizing expertise across organizations.

constraints of using
GenAl to manage
regulatory-grade data
generated from clinical
trials in transactional
systems, as well as less
sensitive data used in
business systems, such
as finance and HR."

"Companies must

address the practical

**Boston Consulting Group** 

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