



WILL AI REPLACE ME?

Biologist

Healthcare

The integration of AI in biological research streamlines many routine processes, such as monitoring experiments and data collection. However, the quintessence of a biologist's role goes beyond these automated tasks.

Their expertise in adhering to Good Laboratory Practices (GLP) ensures the credibility and accuracy of research findings, which AI tools can't ascertain independently. Moreover, a biologist's engagement in in-depth research and their capability to draw nuanced conclusions from complex data are irreplaceable human skills. While AI augments efficiency and accuracy in data handling, the discernment and critical involvement in research embodied by biologists remain pivotal.

Their ability to communicate findings effectively, integrating a human dimension to complex data, continues to be a vital aspect of the profession, highlighting a balanced interplay between AI assistance and human expertise.

Last but not least, all breakthrough innovations, in Biology as in all scientific fields, are born of the human ability to build unexpected associations and connections.

Automation degree: 26,67%

Moderate but identified automation impact of AI for this Job



26,67%

Main tasks

This section reviews the 3 main tasks associated with the job studied and assesses the potential level of automation induced by AI (« **AI Automation Impact** »). The modeling uses 8 criteria detailed on the « **Methodology** » page.

Tasks	AI Automation Impact
Conduct experiments and research to study living organisms.	Low
Analyze the results obtained and draw conclusions.	High
Publish or communicate findings.	High

Impact on skills

At-risk Skills ↓	
Manual Monitoring of Experiment Progression	With the advent of AI and automated monitoring systems, the continuous manual monitoring of experiments for changes or results can be significantly reduced. Advanced AI systems can now track, record, and even alert biologists about important developments in real-time, making the process more efficient and allowing biologists to focus on more critical interpretative and decision-making tasks. This automation not only enhances productivity but also minimizes the chances of oversight that may occur in manual monitoring, especially over extended periods.
Collecting and recording data in laboratory notebooks, databases, records, and reports	Manual data entry is gradually being replaced by automated tools and integrated systems that capture and record data directly, reducing human errors.
Future-proof Skills ↑	
Good Laboratory Practices (GLP)	Compliance with Good Laboratory Practices (GLP) is crucial to ensure the quality and reliability of laboratory tests and analyses. This competence is fundamental and is unlikely to be replaced or made obsolete by technology in the short term.
Research involvement	The ability to actively engage in research requires not only technical expertise but also curiosity, creativity, and innovation skills that technology cannot replace yet.

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