

Impact of new technologies

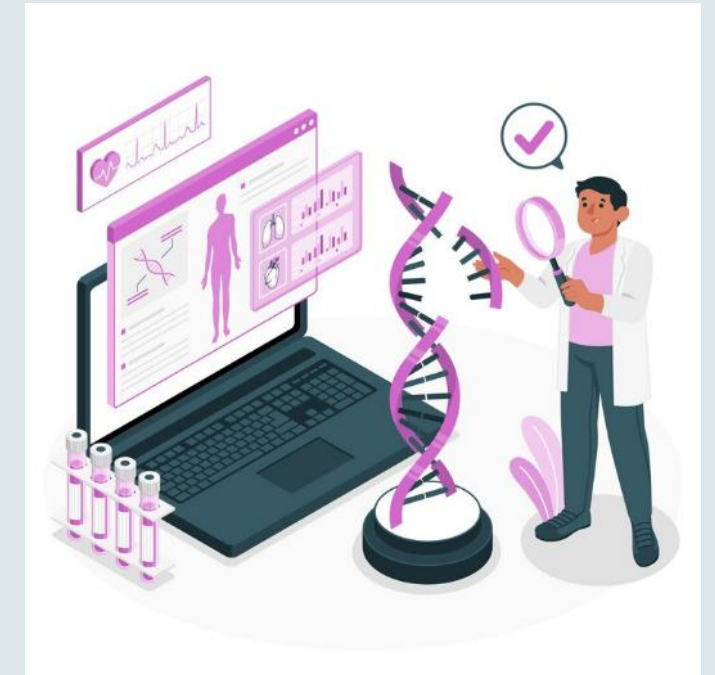
- **AI and machine learning** transform the life science industry by **speeding up R&D of new drugs** cutting down timelines and cost.
- **AI driven diagnostics and multiomics** change medicine to a faster and more personalized healthcare.
- **AI accelerates clinical trials** by optimizing trial design, patient recruitment and data analysis.
- Working with **AI** calls for special **human skills** like resilience, adaptability, analytical and critical thinking.
- The **rapid transformation of life science needs** experts who can navigate the intersection of technology and life science and are digitally fluent such as **data scientists and bioinformatics specialist**.



Sources: <https://www.nesfircroft.com/resources/blog/whats-next-for-the-life-sciences-sector-top-trends-in-2026/>
<https://headcount.ch/blog/life-science-industry-outlook-6-disruptive-trends/>
<https://www.linical.com/articles-research/how-ai-is-revolutionizing-clinical-trials>
<https://www.linkedin.com/in/drholgerschmidt>

Personalized medicine, gene therapy and beyond

- The rise of **genomics and biomarker-based therapies** leads to **customized treatments for one patient** supported by AI driven precision diagnostics.
- **Gene Editing** is an important tool in medicine as **gene therapy** is getting more common.
- **Gene Editing** also used in **agriculture** contributing to **environmental sustainability**, e.g. to reduce pesticide and water use.
- **Next –generation therapeutics like mRNA-based therapeutics, cell therapies and targeted drug delivery** unlock new possibilities, e.g. fighting infectious disease and cancer.
- **New job opportunities in Research and Development like scientist, gene editing specialists and gene therapy researcher**



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<https://headcount.ch/blog/life-science-industry-outlook-6-disruptive-trends/>; <https://doi.org/10.3390/cancers16111989>
<https://www.medixteam.com/blog/the-future-of-life-sciences-trends-and-opportunities>; <https://innovature.com/article/gene-editing-key-environmental-sustainability>;

Sustainability and environmental science

- **Environmental challenges** are reshaping industries and creating a **demand for professionals with ecological expertise**
- **Climate change adaptation** is expected to be the **third-largest contributor to net growth in global jobs by 2030**, projected to contribute an additional 5 million jobs.
- **Environmental Engineers and Renewable Energy Engineers will soon belong top 15 fastest-growing jobs.**
- Roles such as **Sustainability Specialists** and **Renewable Energy Technicians** will also grow.



Source: Future of Jobs Report 2025 by World Economic Forum;
<https://green.org/2024/11/29/the-importance-of-an-ecology-degree-in-todays-green-job-market/>

Still in steady demand

- Accelerated Drug Development, optimization of Clinical Trials by AI and the invention of new therapeutics is creating new jobs **Clinical Research**.
- Roles such as **Clinical Research Associate, Clinical Trial Manager/Project Manager, Pharmacovigilance specialist, Medical writers**
- **Quality Assurance and Quality control specialists**
- **Regulations and Regulatory agencies** have to adapt to technologies advancements and accelerated drug development.
- Additional professionals needed in this area: **Regulatory Affairs Specialists and Regulatory Affairs Manager**.



Source 2026: <https://insightglobal.com/blog/11-hiring-life-sciences-jobs/>

Source: In-Demand Life Sciences Roles for 2025 | LinkedIn; Life Sciences 2024 Hiring Forecast | Smith Hanley Associates

<https://headcount.ch/blog/life-science-industry-outlook-6-disruptive-trends-for-2025>; The Future of Life Science Recruitment: Trends and Predictions for 2025 - Groom & Associates

Challenging Job Markets

- In 2025 the **life science industry** has faced **major lay-offs** and **job offers have dropped significantly**
- Companies are searching **hybrid professionals and candidates with cross-disciplinary expertise**—people who combine deep life sciences domain knowledge with **data and digital fluency** and/or **business strategy expertise**
- Development of a **widen skillset** helps with adaptability in a competitive job market
- Employers frequently mention the need for **strong communication and collaboration skills**, including the communication across domains and work in teams
- Start **networking early** and make **yourself visible**, e.g. via **LinkedIn and Social media**
- The good news: Overall employment levels in Life science are **relatively high** and **experts expects first signs of recovery end of 2026**



Source: <https://intuitionlabs.ai/articles/life-sciences-job-market-2025> (updated Jan2026); <https://www.nesfircroft.com/resources/blog/whats-next-for-the-life-sciences-sector-top-trends-in-2026/>; <https://www.pharmiweb.jobs/article/life-science-hiring-trends-and-challenges-heading-into-2026>; https://medium.com/@jatin.b_9707/the-importance-of-skill-development-staying-competitive-in-the-job-market-e1434328a668; <https://trial.medpath.com/news/d369fec9093b4c6e/biopharma-job-market-recovery-expected-by-late-2026-despite-current-downturn>