



Biotechnology in Germany: facts and figures

The German biotech industry:

- approx. 1,000 biotech companies
- about €4.6bn in R&D expenditures
- more than €11bn in revenue
- more than 56,000 employees

Source: 2024, EY German Biotechnology Report 2025

German science and research in biotech:



Germany ranks as **Europe's number one** for **biotechnology patents** (more than 2,400 patent applications filed with the EPO 2023-2025) and **4th globally** for biotechnology-related IP5 patents



OECD number one: Germany has the highest share of **STEM graduates**



26 German universities are listed in the ShanghaiRanking for Biotechnology (out of 400)



Germany **ranks 4th** worldwide in the **publication of S&E articles** in biological and biomedical sciences

2023, NCSE S&E Indicators 2025; ShanghaiRanking 2025; 2022, 2023, EPO 2025

German biotech regions – 39 biotech clusters

Germany's biotech sector has established a dynamic ecosystem that fosters a creative environment across its regions – supporting innovative ideas, talent and technologies:

- 1 Berlin-Brandenburg:** a growing hub for biotech innovation with a vibrant start-up culture, spanning both the medical segment as well as the bioeconomy sector; e.g. [HealthCapital Cluster](#); [BiotechPark Berlin-Buch](#)
- 2 Greater Munich/Bavaria:** stands out as the clear leader in biotech venture capital; strong university base (LMU, TUM) and dynamic innovation ecosystem; e.g. [BioM](#), central network organisation for medicine and biotechnology



- 3 Rhine-Neckar:** one of the strongest life science hubs in Germany, consisting of around 1,000 life science companies and research organisations; e.g. [bioRN science and industry innovation cluster](#)
- 4 Rhineland-Palatinate:** home to BioNTech and Boehringer Ingelheim, has the highest number of clinical studies; e.g. "Cluster4Future" [curATime](#) for atherothrombosis and individualised medicine using AI- and mRNA-based technologies

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