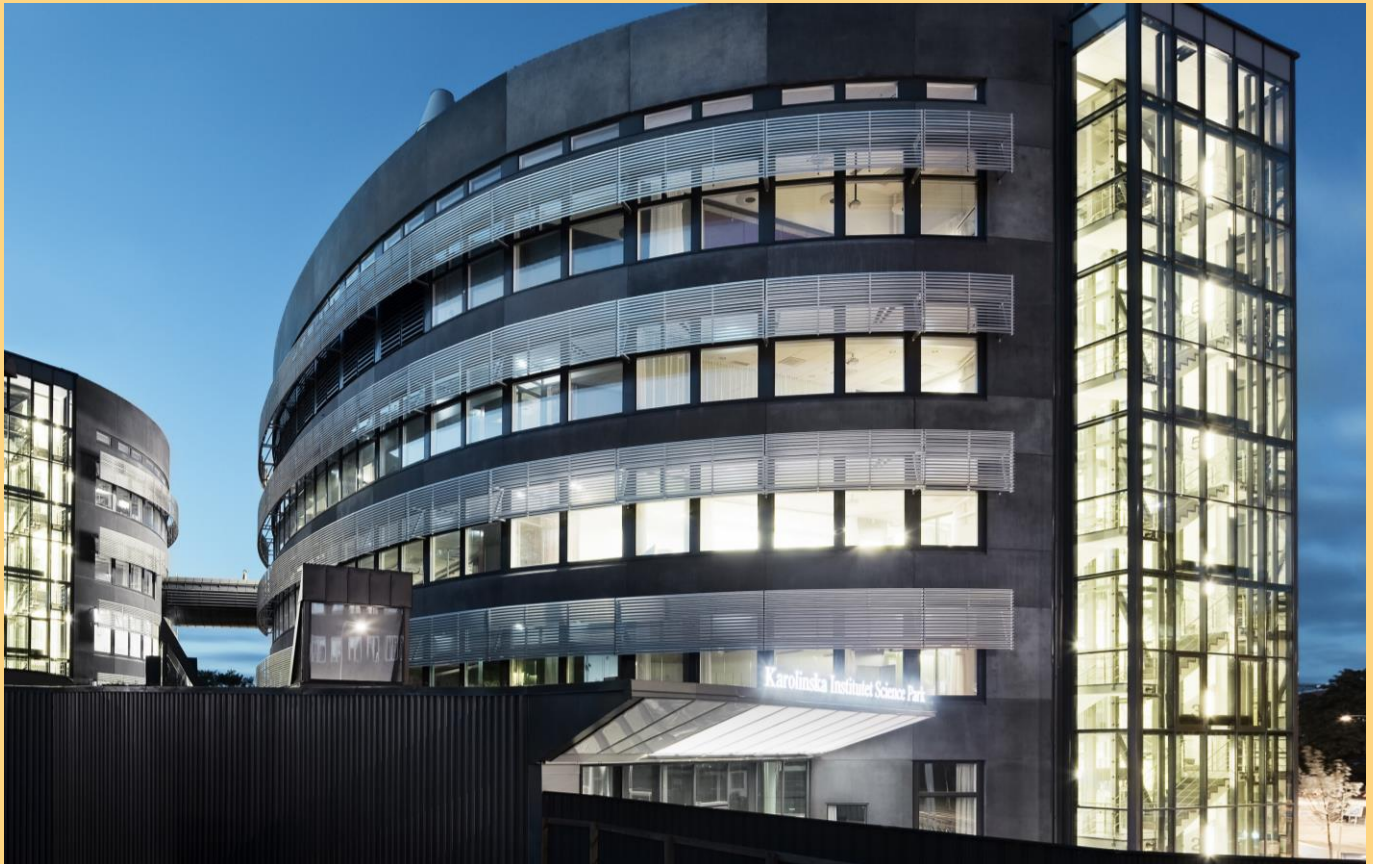


Sweden: A Biotech Innovation Hub

The Swedish Biotech Industry

The Swedish biotech industry is a dynamic and innovative sector characterized by robust collaboration within the Triple Helix model, involving academia, industry, and the public sector. This ecosystem fosters early stage research and innovation, positioning Sweden as a leading hub for biotechnological advancements covering the entire chain from R&D to manufacturing.

With a strong foundation in health data, Sweden excels in personalized medicine, leveraging extensive databases for cutting edge research and development. Biotech companies integrate advanced technologies such as AI to accelerate drug development processes and enhance diagnostics, but also explore the application of quantum life science. This indicates a forward looking and influential role and with representing ~50% growth of the Nordic Biopharma pipeline, Sweden is a partner to count on in shaping the future of global life sciences.



Small Companies with a Focus on Accelerating Innovation

THE TRIPLE HELIX MODEL MAKES INNOVATION THRIVE

In Sweden, the Triple Helix model serves as a dynamic framework, fostering collaboration among academia, industry, and the public sector to drive innovation. The overarching Life Science strategy outlines a long term plan, ensuring sustained investments to maintain the nation's robust position. In biotechnology particularly, this model encourages close partnerships among universities, research institutions, and businesses, cultivating an environment conducive to early stage research and innovation. This synergy reinforces Sweden as a leading innovation hub. Collaboration among stakeholders, both small and large enterprises, nurtures a business friendly atmosphere, promoting growth for national and international participants. The academia landscape is pivotal, facilitating the seamless transfer of research findings to commercial applications. Notably, 56% of all Swedish Biotech companies in 2023 originated as spinoffs from academic research, and a substantial majority (78%) are classified as micro sized entities. With a wealth of small companies rooted in extensive scientific research, Sweden emerges as an appealing partner for international collaboration, fostering innovation and business opportunities such as licensing of assets.

RESEARCH AND DEVELOPMENT FOCUS

Within the Life Science sector in Sweden, several prominent trends are observed in research and development. In biotechnology, increased integration of advanced technologies, such as AI and quantum computing, has become crucial. Biotech companies in Sweden have successfully integrated AI to accelerate drug development processes and enhance diagnostic methods. On the quantum front, researchers and companies explore the possibilities of using quantum computations to solve complex problems in biotechnology and medical research. These trends are expected to shape the future of the Life Science sector in Sweden and impact global markets with a focus on optimizing precision medicine with initiatives such as Centre for Quantum Life Science at the Karolinska Institute.

ACCESSIBLE HEALTH DATA AND PERSONALIZED MEDICINE

Sweden has positioned itself as a significant player in health data and personalized medicine. The country possesses an extensive health data databases, providing a robust foundation for research and development in biotechnology. Sweden has over 450 biobanks with more than 150 million samples and 14 partner regions and universities contributing with 3 4 million new samples each year. This rich data environment enables innovative studies, paving the way for personalized treatments and Advanced Therapeutic Medicines (ATMP). Sweden's capacity in clinical studies and its unique expertise in ATMP strengthen its position as a leading player in biotechnology and an attractive international player to collaborate with for research trials. The new initiative CCRM focus on supporting ATMP companies to commercialize their research into treatment for patients through collaboration with larger corporations such as AstraZeneca and Getinge.

Read [this](#) report to learn more about Sweden's Life Science Industry!