

The Robotic Biobanking Systems Market is projected to achieve a valuation of US \$3.99 billion by 2029.

*The Business Research Company's
Robotic Biobanking Systems Global
Market Report 2025 – Market Size,
Trends, And Global Forecast 2025-2034*

LONDON, GREATER LONDON, UNITED
KINGDOM, December 15, 2025
/EINPresswire.com/ -- The [robotic
biobanking systems market](#) is

experiencing swift advancement as automation and precision become increasingly vital for managing biological specimens. This growing sector is set to transform how biomedical research and clinical studies handle valuable samples, driving efficiency and accuracy across laboratories worldwide. Let's explore the current market size, key factors propelling growth, major players, and emerging trends shaping this innovative field.



It will grow to \$3.99 billion in 2029 at a compound annual growth rate (CAGR) of 14.7%”

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Robotic Biobanking Systems Market Size and Expected Growth

The robotic biobanking systems market has expanded substantially in recent years. It is projected to increase from \$2.00 billion in 2024 to \$2.30 billion in 2025, marking a compound annual growth rate (CAGR) of 15.1%. This substantial rise is fueled by the increasing need for

efficient biological sample management, the surge in biomedical research activities, the establishment of more biobanks and biorepositories, growing emphasis on personalized medicine, and the expansion of clinical trials. Looking ahead, the market is anticipated to grow rapidly, reaching \$3.99 billion by 2029 with a CAGR of 14.7%. This future growth will be supported by factors such as the wider adoption of precision medicine and genomics, greater automation in labs, increasing large-scale population biobanking projects, advances in biomarker discovery and translational research, and a stronger focus on healthcare decisions driven by data.

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What Robotic Biobanking Systems Entail

Robotic biobanking systems are sophisticated automated platforms that combine robotics, artificial intelligence, and data management technologies to handle the processing, storage, and retrieval of biological samples with outstanding accuracy and minimal human intervention. These systems ensure sample integrity, traceability, and long-term preservation within biorepositories. They play a crucial role in biomedical research, clinical trials, and pharmaceutical development by streamlining specimen management and boosting laboratory productivity.

Key Forces Boosting Growth in the Robotic Biobanking Systems Market

One major driver behind the market's growth is the rising volume of biological sample collections. These collections consist of organized and preserved biospecimens such as blood, tissue, saliva, and their related data, which are essential for biomedical research, diagnostic work, and therapeutic development. This increase is largely due to the growing focus on precision medicine, which relies on large, well-characterized biospecimen repositories to facilitate genomic studies, biomarker identification, and personalized treatment strategies. Robotic biobanking systems enable this expansion by automating sample handling processes to maintain scalability, accuracy, and efficiency even as sample inventories grow rapidly.

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The impact of growing sample collections is evident in initiatives like the UK Biobank. In July 2025, the UK Biobank Limited announced plans to move over 11 million samples to a new facility in Manchester by 2026. This site will house four next-generation automated freezers capable of storing up to 20 million samples, with robotic systems designed to retrieve about 1 million samples annually—quadruple the current capacity. Such developments highlight how increasing sample volumes are fueling demand for robotic biobanking solutions.

Regional Overview of the Robotic Biobanking Systems Market

In 2024, North America held the largest share of the robotic biobanking systems market. Meanwhile, the Asia-Pacific region is forecasted to be the fastest-growing market during the upcoming years. The analysis covers several key regions, including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa, providing a comprehensive view of global market trends and opportunities.

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