

South & Central America Smart Life Sciences Manufacturing Market Forecast to 2033 – Regional Analysis – by Component (Solutions and Services), Technology [AR/VR Systems, Internet of Things (IoT), Artificial Intelligence (AI), Cybersecurity, Big Data, and Others], and Application (Pharma, Bio-Pharma, and Medical Device)

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Abstracts

The South & Central America Smart Life sciences manufacturing market is expected to grow from US\$ 1,574.98 million in 2023 to US\$ 5,285.77 million by 2033. It is estimated to grow at a CAGR of 12.9% from 2023 to 2033.

Rising Adoption of Pharma 4.0 Fuel South & Central America Smart Life Sciences Manufacturing Market

Technology has been playing a major role in the healthcare sector, wherein the biotechnology industry is the most benefited segment by recent technological advancements in data analytics, compared to other domains such as oncology, neurology, and immunology. Emerging data sciences technologies also assist in the growth of the biotechnology industry. The analysis of living organisms, research for novel drugs, etc., are the major roles played by biotechnology laboratories.

Modern data analytics tools have allowed biotechnology researchers to create predictive analytics models and eventually allow them to understand the most effective ways of achieving their desired goals and objectives. Big data, AI, virtual reality, data visualization, and data security are among the common technologies used in biotech laboratories. Tableau helped Novozymes cut the reporting times by more than 90%. It

also assists in strategic decision-making within the company's departments such as sales, raw material purchase, +planning, and finance. In addition, Tableau allows Novozymes' sales force in sharing key insights with customers, thereby building relationships and enhancing revenue performance.

AstraZeneca, plc, a British–Swedish multinational pharmaceutical and biotechnology company, uses data and technology to minimize the time to discovery and delivery of potential new medicines. The company has data science and AI capabilities embedded in its R&D departments, which allows scientists to push the boundaries of science to deliver life-changing medicines. They apply AI throughout the discovery and development process, from target identification to clinical trials, to uncover new insights guiding the drug discovery and development process.

South & Central America Smart Life Sciences Manufacturing Market Overview

The smart life sciences manufacturing market in South America is segmented into Brazil, Argentina, and the rest of South America. The region is expected to develop moderately over the period owing to the positive influence of North American countries. South America is expected to have regulatory policies for the use and approval of medical devices, pharmaceuticals, and other life science products. The medical device market in Brazil is governed by the Brazilian Health Regulatory Agency, ANVISA. The ANVISA came up with a new resolution, RDC 687/2022, to grant or renew the Brazilian Good Manufacturing Practice (BGMP) certification for medical devices and is in effect from June 01, 2022, annulling RDC 183/2017. RDC 183 was published in 2017 to modernize and accelerate the process of issuing GMP certificates. The Resolution RDC no. 687 was published on May 13, 2022, to simplify the documentation required for GMP certification. It brings down the technical requirements for the certification, which gives great momentum to the certification process. Furthermore, manufacturers from the US, Canada, and other neighboring countries are expanding into countries in South America, and the manufacturers are focused on setting the smart manufacturing facilities, which will help in the long run. In May 2022, Johnson & Johnson South America partnered with Microsoft for business transformation by embedding intelligent automation into the organization. The opportunity to reimagine work is significant and has the potential to empower and equip employees with new skills; capabilities; and the freedom to focus on fulfilling, engaging, and purpose-driven work. Therefore, all the above-mentioned factors are expected to accelerate the smart life sciences manufacturing market growth in South America in the coming years.

South & Central America Smart Life Sciences Manufacturing Market Revenue and

Forecast to 2030 (US\$ Million)

South & Central America Smart Life Sciences Manufacturing Market Segmentation

The South & Central America smart life sciences manufacturing market is segmented into technology, component, application, and country.

Based on component, the South & Central America smart life sciences manufacturing market is segmented into solutions and services. The solution segment held a larger share of the South & Central America smart life sciences manufacturing market in 2023.

Based on technology segment is categorized into AR/VR Systems, Internet of things (IOT), Artificial Intelligence (AI), Cybersecurity, Big Data, and others. The Internet of things segment held a largest share of the South & Central America smart life sciences manufacturing market in 2023. Further, the cybersecurity segment is categorized into IT cybersecurity and OT cybersecurity.

Based on Application, the South & Central America smart life sciences manufacturing market is segmented into pharma, bio-pharma, and medical devices. The pharma segment held the largest share of the South & Central America smart life sciences manufacturing market in 2023.

Based on country, the South & Central America smart life sciences manufacturing market is segmented into Argentina, Brazil, and the Rest of South & Central America. Brazil dominated the South & Central America smart life sciences manufacturing market in 2023.

ABB Ltd, Bosch Rexroth AG, Emerson Electric Co, Fortinet Inc, General Electric Co, Honeywell International Inc, International Business Machines Corp, Rockwell Automation Inc, Siemens AG, and Sophos Ltd are some of the leading companies operating in the South & Central America smart life sciences manufacturing market.

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