

Global biomaterials Market Insights 2025: Key Trends, Market Size, and Growth Forecast

The Business Research Company's Global biomaterials Market Insights 2025: Key Trends, Market Size, and Growth Forecast

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It will grow to \$262.56 billion in 2029 at a compound annual growth rate (CAGR) of 14.4%. ”

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What Has Shaped The Growth Of The Biomaterials Market In Recent Years?

In 2024, the biomaterials market size was estimated at \$134.31 billion and it is slated to expand to \$153.55 billion in 2025. The significant growth in this historic period is

linked to the rise in the global aging population and escalating adoption of biomaterials in orthopedic and dental applications. Additionally, the heightened sensitivity towards environmental sustainability and a spike in chronic conditions have boosted the demand for medical implants, thereby driving the market.

How Is The Biomaterials Market Expected To Evolve Further?

The market size is projected to show remarkable growth, reaching \$262.56 billion in 2029, marking a compound annual growth rate CAGR of 14.4%. This growth is driven by consumer preferences for biomaterials in 3D printing and additive manufacturing, and an increased fondness for the biodegradable and bioresorbable biomaterials segment. Biomaterials also find their use in drug delivery systems for personalized medicine and in wound care and tissue regeneration, fueling their demand. Major trends foreseen in the forecast period include the development of smart biomaterials with responsive and adaptive properties, integration of nanotechnology, personalized medicine, exploration of marine and plant-derived biomaterial sources, and innovative collaborations between biomaterial companies and healthcare institutions for innovative applications.

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Why Are Cardiovascular Diseases Contributing To Market Growth?

The rise in cardiovascular disorders, caused by high blood pressure, smoking, and other conditions, is primarily due to noncontagious diseases such as diabetes and coronary artery disease CAD. The prevalent usage of biomaterial products such as heart valves, vascular grafts, and pacemakers as healing mechanisms for damaged heart tissues underscores their importance. Amid growing demand, major players in the biomaterials market continue to innovate and improve, some of which include Corbion N V, Zimmer Biomet Holdings Inc., Stryker Corporation, Invibio Ltd., and CeramTec GmbH, among others.

What Is The Latest Trend In The Biomaterials Market?

Strategic partnerships aimed at developing innovative implants and combination devices constitute the latest trend in the market. IFF, a US-based Corporation, launched the Enzymatic Biomaterials DEB technology platform in 2023 to cater to the growing demand for sustainable, high-performance materials. These partnerships enhance market adoption by boosting their competitive edge and increasing revenue.

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How Is The Biomaterials Market Segmented?

As for segmentation, the biomaterials market can be dissected into various clusters and sub-clusters on the basis of type, application, end use, and more. The primary division includes Metallic Biomaterials, Polymeric Biomaterials, Natural Biomaterials, Ceramics, among others, with distinct sectors of application from cardiovascular to orthopedic, ophthalmology, and more. The end use is primarily attributed to hospitals and clinics, ambulatory surgical centers, and other end users.

What Is The Regional Landscape Of The Biomaterials Market?

In terms of geographical discoveries, North America ruled the roost as the largest region in the biomaterials market in 2024. The report thoroughly covers several regions including Asia-Pacific, Western Europe, Eastern Europe, South America, Middle East, and Africa.

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