

Global 3D Bioprinting in Medical Market Size study, by Products and Solutions (Bioprinters, Consumables and accessories, Software and services) by Technology (Extrusion based bioprinting, Inkjet based bioprinting, Laser assisted bioprinting, Others), by Application (Tissue engineering and regenerative medicine, Drug discovery and development, Others), by End User (Biotechnology and pharmaceutical companies, Academic and research institutes, Others) and Regional Forecasts 2022-2032

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Abstracts

Global 3D Bioprinting in Medical Market is valued approximately at USD 1.27 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 15.5% over the forecast period 2024-2032. 3D bioprinting in the medical field represents a revolutionary approach to tissue engineering and regenerative medicine. It involves the precise layer-by-layer deposition of biomaterials, cells, and growth factors to create three-dimensional structures that mimic the complex architecture and functionality of native tissues and organs. This cutting-edge technology holds immense promise for a wide range of applications, including organ transplantation, drug screening, disease modeling, and personalized medicine. Global 3D Bioprinting in Medical Market trends towards multi-material and multi-cellular printing which allows the creation of complex tissue structures with heterogeneous compositions. By incorporating different cell types and biomaterials into the printing process, researchers can mimic the diverse microenvironments found in native tissues and organs, enhancing the functionality and biological relevance of the constructs.

The Global 3D Bioprinting in medical Market is experiencing robust growth, propelled by several key factors. The escalating prevalence of chronic diseases, coupled with the pressing need for more accurate models to study disease progression and develop targeted therapies. This is driving the demand for 3D bioprinting in disease modeling and drug testing applications. For instance, significant investments, exceeding USD 300 million, have been granted to Advanced Regenerative Manufacturing Institute (ARMI) by leading manufacturers, universities, nonprofit organizations, and the federal government. This funding aims to foster the development of scalable manufacturing processes for engineered tissues and organs, reflecting the industry's commitment to advancing 3D bioprinting technologies. Furthermore, Global 3D Bioprinting in medical Market is driven by rising advancements in 3D bioprinting technologies and rising spending in medical research and development activities. However, complexity of tissue engineering and high costs associated with 3D bioprinting systems is expected to stifle the market growth between 2022 and 2032.

The key regions considered for the global 3D Bioprinting in Medical market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, Europe was the largest regional market in the market place. The regional market growth is propelled by the presence of key players such as 3D Systems Corporation and Organovo Holdings, Inc., alongside advancements in the manufacturing technology of 3D bioprinting for medical applications. Furthermore, the region has well-established healthcare infrastructure and substantial investment in research and development (R&D), fostering an environment conducive to the advancement and adoption of cutting-edge technologies like 3D bioprinting. These factors collectively drive market growth, positioning the region as a hub for innovation and development in the field of medical 3D bioprinting. The market in Asia Pacific, on the other hand, is expected to grow at the fastest rate over the forecast period.

Major market player included in this report are:

3D Systems Corporation

Desktop Metal, Inc.

Organovo Holdings, Inc.

Cyfuse Biomedical K.K

Medprin Biotech GmbH

Advanced Solutions, Inc.

CollPlant Biotechnologies Ltd

REGEMAT 3D S.L

The Bio Convergence Company

Shining 3D

The detailed segments and sub-segment of the market are explained below:

By Products and Solution

Bioprinters

Consumables and accessories

Software and services

By Technology

Extrusion based bioprinting

Inkjet based bioprinting

Laser assisted bioprinting

Others

By Application

Tissue engineering and regenerative medicine

Drug discovery and development

Others

By End User

Biotechnology and pharmaceutical companies

Academic and research institutes

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
Middle East & Africa
Saudi Arabia
South Africa
RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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