

3D Printing Healthcare Market by Component (System/Device, Materials, Services), Technology (Droplet Deposition (DD), Photopolymerization, Laser Beam Melting, Electronic Beam Melting (EBM), Laminated Object Manufacturing), Application (External Wearable Devices, Clinical Study Devices, Implants, and Tissue Engineering), and End User (Medical & Surgical Centers, Pharma & Biotech Companies, and Academic Institutions): Global Opportunity Analysis and Industry Forecast, 2019–2026

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## **Abstracts**

3D printing, also known as desktop fabrication or additive printing technology, allows manufacturers to develop objects using a digital file and various printing materials. The materials used in 3D printing include several types of polymers, metals, and ceramics. 3D printing offers methodologies that can make manufacturing of complex designs an apparent reality. The 3D printing technology in healthcare caters to the rising demands of medical care by providing wide array of applications based on individual needs. The global 3D Printing Healthcare market was valued at \$973 million in 2018, and is projected to reach \$3,692 million by 2026, growing at a CAGR of 18.2% from 2019 to 2026.

The factors that drive the 3D printing healthcare market are reduction of errors, decrease in development cost & time, and the ability to build customized products. In addition, increase in scope of applications in healthcare and biomedical applications is



expected to create lucrative growth opportunities. On the contrary, high cost of 3D printing and dearth of skilled labors hamper the growth of the market.

Furthermore, increase in healthcare expenditure and rise in collaborations between academic institutions, hospitals, and companies supplement the market growth. However, unfavorable reimbursement policies hinders the market growth. Conversely, emerging economies such as India, China, Mexico, Brazil, and others are anticipated to provide new opportunities for the market growth during the forecast period.

The global 3D printing healthcare market is segmented into component, technology, application, end user, and region. By component, the market is segregated into system/device, materials, and services. Depending on technology, it is categorized into droplet deposition (DD), photopolymerization, laser beam melting, electronic beam melting (EBM), and laminated object manufacturing. The applications covered in the study include external wearable devices, clinical study devices, implants, and tissue engineering. As per end user, the market is fragmented into medical & surgical centers, pharma & biotech companies, and academic institutions. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

#### **KEY BENEFITS FOR STAKEHOLDERS**

This report highlights the market dynamics to understand the global 3D printing healthcare market and capitalize on the prevailing opportunities.

Quantitative analysis of the current market and forecasts would assist stakeholders to design business strategies accordingly.

Porter's five forces analysis examines the competitive market structure and provides a deeper understanding of the influencing factors for entry and expansion.

Pin-point analysis of geographical segments offers identification of most profitable segments to capitalize on.

#### **KEY MARKET SEGMENTS**

By Component



System/Device

Materials

Services

By Technology

Droplet Deposition (DD)

Fused Deposition Modeling (FDM) Technology

Low-temperature Deposition Manufacturing (LDM)

Multiphase Jet Solidification (MJS)

Photopolymerization

Stereolithography (SLA)

Continuous Liquid Interface Production (CLIP)

Two-Photon Polymerization (2PP)

Laser Beam Melting

Selective Laser Sintering (SLS)

Selective Laser Melting (SLM)

Direct Metal Laser Sintering (DMLS)

Electronic Beam Melting (EBM)

Laminated Object Manufacturing

By Application

**External Wearable Devices** 



Clinical Study Devices		
Implants		
Tissue Engineering		
By End User		
Medical & Surgical Centers		
Pharmaceutical & Biotechnology Companies		
Academic Institutions		
By Region		
North America		
U.S.		
Canada		
Mexico		
Europe		
Germany		
France		
Spain		
Italy		
UK		
Rest of Europe		



# Asia-Pacific Australia Japan India China Rest of Asia-Pacific LAMEA Brazil Saudi Arabia South Africa Rest of LAMEA **KEY MARKET PLAYERS** 3D Systems Corporation Exone **Formlabs** GE Materialise NV Oxferd Performance Materials, Inc. Organovo Holdings, Inc.



Pr	roto Labs
SI	LM Solutions Group AG
St	tratasys Ltd.
The other	r players in the value chain include (profiles not included in the report):
Ad	dvanced Solutions Life Sciences
As	spect Biosystem
Cy	yfuse Biomedical K.K.
Er	nvisiontec
Na	ano Dimension



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