

# 3D Bioprinting Market Research Report 2016 Analysis and Forecasts to 2027

*3D Bioprinting market research report by product type, by application by end user - Forecast to 2027*

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/EINPresswire.com/ -- About 3D Bio printing:

3D bioprinting is the process of creating cell designs in a confined space 3D printing technologies where cell capacity and reasonability are preserved within the printed construct. 3D bioprinting uses the layer-by-layer strategy to make tissue-like structures that are later utilized as a part of medicinal and tissue engineering fields. Bioprinting covers a wide range of materials. Currently, bioprinting can be used to print tissues and organs to help research drugs and pills. Furthermore, 3D bioprinting has started to consolidate the printing of scaffolds. These scaffolds can be used to regenerate joints and ligaments. The first patent related to this technology was filed in the United States in 2003 and granted in 2006.

Generally 3D bioprinting follows three steps:

- Pre-bioprinting: Pre-bioprinting is the process of creating a model that the printer will later create and choosing the materials that will be used
- Bioprinting: In this second step the liquid mixture of cells and nutrients are placed in a printer cartridge and structured using the patients' medical scans.
- post-bioprinting: The post-bioprinting process is necessary to create a stable structure from the biological material. If this process is not well-maintained, the mechanical integrity and function of the 3D printed object is at risk.

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3D Bio printing Applications:

3D Bioprinting has various applications like, the 3D printer is advanced to have the capacity to print skin tissue, heart tissue, and veins among other fundamental tissues that could be suitable for surgical therapy and transplantation. Similarly 3D bioprinting technology is utilized to create soft tissues and artificial bones for possible use in reconstructive surgery. Bioprinting technology will eventually be used to create fully functional human organs for transplants and drug research, which will take into consideration more viable organ transplants and more secure more effective drugs



Market Research Report

### 3D Bio printing market segmentation:

#### 3D Bio Printer By product type:

- Electron Beam melting
- Laser Beam Melting
- Photo – Polymerization (Stereo lithography, Digital light process, Two photon polymerization)
- Droplet disposition (Inkjet printer, Fused disposition modelling, Multi phased jet solidification)

#### 3D Bio Printer By application:

- Tissue Printing
- Tissue Creation
- Surgery

#### 3D Bioprinting End users:

- Hospitals
- Research Facilities

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#### Major Market Players:

The major market players in 3D Bioprinting includes, Organovo, Cyfuse Biomedical, BioBots, Aspect Biosystems, 3D Bioprinting Solutions, Rokit, TeVido Biodevices, 3Dynamics System, Cyfuse Biomedical K.K., Envision TEC, Stratasys Ltd.

#### Market Growth Driver

3D printing is one of the biggest achievements by the human race, scientists and doctors are now able to create tissues which are the latest form of technology. Global 3D Bioprinting in the healthcare sector is attracted by the advancement in technology, an increase in the percentage of the aging population, improvement in the healthcare infrastructure, and an increase in the investment in research and development sector, Technological advances in this industry is ever ongoing applications of additive manufacturing in healthcare industry expanding. This factor can be one of the biggest unique factors in this industry and the demand for this is going to be never ending.

#### Regional Analysis:

##### North America

The North American market for 3D Bioprinting is one of the emerging markets, in the United States, R&D investment and funding is prone to increase at a quicker rate, turning the tables from near to zero growth. Federal financing is difficult to forecast because of efficient spending plan forms, but they are indication of bipartisan political support for expansion in favor of R & D. It is also forecasted that the private R & D investment will also increase. With investment in research and development growing in North America the development of 3D Bioprinting is predicted to grow and soon be an developed market. With Investment in R & D and the Demand for 3D Bioprinting playing major roles in making this market established.

##### Europe:

Europe has the second largest market for 3D bioprinting due to technological advancement, increasing government expenditure and extensive application areas for 3D bioprinting in Europe. Technological advancement, increasing demand for 3D printer in drug discovery, and developing requirement for toxicity screening of drugs are expected to drive the market for 3D Bioprinting. Furthermore increasing awareness about benefits of 3D bio printer and growing demand for quick and cheap solutions for medical problems are expected to drive the market for 3D bioprinting Europe. Government issues and some religious factors may be controlling the growth of the European 3D

bioprinting market.

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