

# 3D Bioprinted Human Tissue Market to Reach \$3.18 Billion by 2029 with 13.3% CAGR

*The Business Research Company's 3D Bioprinted Human Tissue Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034*

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What Is The 3D Bioprinted Human Tissue Market Size And Growth?

Recent years have seen a swift expansion of the [3D bioprinted human tissue market](#), which is projected to rise from \$1.70 billion in 2024 to \$1.93 billion in 2025, exhibiting a compound annual growth rate (CAGR) of 13.7%. Factors contributing to the historic growth include a heightened demand for organ transplants, escalating occurrence of chronic illnesses, increased funding in regenerative medicine, proliferation of stem cell studies, and a growing reliance on individualized medicine.

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The Business Research Company's Latest Report Explores Market Driver, Trends, Regional Insights - Market Sizing & Forecasts Through 2034”

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The market for 3D bioprinted human tissue is projected to expand significantly in the coming years, reaching \$3.18

billion in 2029, with a compound annual growth rate (CAGR) of 13.3%. Factors fueling this anticipated growth include a heightened demand for organ transplantation, an increased prevalence of chronic diseases, burgeoning investment in regenerative medicine, an extension in stem cell research, and a rising reliance on personalized medicine. Expected trends within this same period include improvements in bio-ink technologies, breakthroughs in tissue engineering, fast-paced advancement in stem cell bioprinting, active research and development activities, along with the advent of multi-material and multi-cell printing systems.

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### What Are The Current Leading Growth Drivers For 3D Bioprinted Human Tissue Market?

The surge in demand for organ transplants is predicted to fuel the expansion of the 3D bioprinted human tissue market. Organ transplantation is a medical operation in which organs from a donor are transferred to a recipient to supplant damaged or malfunctioning organs. The escalated demand for organ transplants comes from patients looking for procedures that reduce wait times, enhance survival rates, and provide hope via readily available and dependable transplant options. The 3D bioprinted human tissue presents a revolutionary approach to organ transplants by facilitating the production of patient-specific, functioning tissues, which minimizes the risk of rejection and reduces reliance on donor organs. As an illustration, the Organ Procurement and Transplantation Network, a US Department of Health and Human Services division, reported in January 2024 that organ transplants from living and deceased donors amounted to 46,632 in 2023, marking an 8.7% rise from 2022 and 12.7% from 2021. This was the first year that over 40,000 organ transplants took place. As such, the surging demand for organ transplants is an engine driving the growth of the 3D bioprinted human tissue market.

### Which Companies Are Currently Leading In The 3D Bioprinted Human Tissue Market?

Major players in the 3D Bioprinted Human Tissue Global Market Report 2025 include:

- 3D Systems Corporation
- Inventia Life Science PTY LTD.
- Aspect Biosystems Ltd.
- Cellink Global AB
- Prellis Biologics Inc.
- Cyfuse Biomedical K.K.
- Poietis SAS
- Fluidform LLC
- Tissuelabs
- Brinter Oy

### What Are The Main Trends, Positively Impacting The Growth Of 3D Bioprinted Human Tissue Market?

Leading businesses in the 3D bioprinted human tissue market are focusing their efforts on innovative methods, such as optimization of samples derived directly from patients, in order to develop more precise and customized tissue models. These models are aimed at enhancing outcomes in drug testing, disease research, and regenerative medicine. Optimization of patient-derived samples pertains to the advanced ability to utilize limited patient cells for the creation of multiple, high-quality 3D tissue models relevant to biology for more precise and customized research results. For example, in January 2025, Inventia Life Science Pty Ltd., a biotechnology firm based in Australia, unveiled their RASTRUM solution under the aegis of its Inventia Life Science suite. This solution was specifically crafted to amplify the quick, exact, and consistent generation of intricate 3D human tissue models closely resembling real human tissues. These are intended for usage in drug discovery, disease modelling, and regenerative medicine. It applies cutting-edge drop-on-demand bioprinting technology to automate and expand the

manufacture of 3D cell cultures in commonly used lab plate formats, significantly lessening manual labor and variability. This empowers researchers to carry out high-throughput and uniform experiments with biologically pertinent tissue models, boosting the speed of discoveries and enhancing the predictability of results in preclinical research.

#### How Is The [3D Bioprinted Human Tissue Market Segmented?](#)

The 3D bioprinted human tissue market covered in this report is segmented

- 1) By Tissue Type: Skin, Cartilage, Liver, Bone, Heart, Other Tissue Types
- 2) By Technology: Extrusion-Based, Inkjet Bioprinting, Laser-Assisted Bioprinting, Microfluidic And Acoustic, Magnetic Levitation, Hybrid Or 4D
- 3) By Materials: Natural Biomaterials, Synthetic Biomaterials, Decellularized Extracellular Matrices, Hydrogels, Composite Materials, Other Materials
- 4) By Application: Tissue Engineering, Cosmetic Surgery, Drug Testing And Development, Food Testing
- 5) By End-User: Pharmaceutical Companies, Biotechnology Firms, Academic Research Institutions, Contract Research Organizations, Hospitals And Clinics

#### Subsegments:

- 1) By Skin: Wound Healing Applications, Cosmetic Testing Models, Skin Graft Replacements
- 2) By Cartilage: Joint Repair Models, Nasal Reconstruction, Ear Reconstruction
- 3) By Liver: Toxicity Testing Models, Disease Modeling, Transplant Research
- 4) By Bone: Orthopedic Implants, Cranial Repair Models, Bone Graft Substitutes
- 5) By Heart: Cardiac Patch Development, Heart Valve Models, Myocardial Regeneration
- 6) By Other Tissue Types: Kidney Models, Lung Tissue Constructs, Pancreatic Tissue Models

View the full 3d bioprinted human tissue market report:

<https://www.thebusinessresearchcompany.com/report/3d-bioprinted-human-tissue-global-market-report>

#### Which Is The Dominating Region For The 3D Bioprinted Human Tissue Market?

In the 2025 global market report for 3D bioprinted human tissue, North America was identified as the leading region in 2024. The report also predicts Asia-Pacific to experience the most rapid growth in the upcoming years. It encompasses various regions including, North America, Asia-Pacific, Western Europe, Eastern Europe, South America, Middle East, and Africa.

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