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Veterinary 3D Printing Market Size, Share & Trends Analysis Report By Product (Implants, Prosthetics & Orthotics), By Animal (Dogs, Cats), By Application (Orthopedics), By Material (Metals, Ceramics, Polymers), By End-use, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Veterinary 3D Printing Market Growth & Trends
The global veterinary 3D printing market size is anticipated t%li%reach USD 196.2 million by 2030 and is anticipated t%li%expand at a CAGR of 9.8% during the forecast period, according t%li%a new report by Grand View Research, Inc. A major driving factor in this market is the continuous research efforts worldwide t%li%discover novel materials t%li%be utilized in printing 3D printed products like prosthetics, orthotics, implants, masks, anatomical models, etc. This research int%li%novel materials is aimed at finding materials that are more efficient and als%li%environmentally friendly. For instance, according t%li%2025 Elsevier published article explored the use of biowaste for 3D printing.
The research highlighted the potential of biowaste-derived materials as sustainable alternatives for bone tissue engineering by repurposing animal remains, such as bones, t%li%extract Hydroxyapatite, essential for bone regeneration. Additionally, marine biowaste, including fish skin and scales, provided an economical source of collagen, enhancing material sustainability while aligning sustainable development goals focused on health, responsible consumption, and climate action. The study emphasized the advantages of using biowaste over conventional feedstocks, noting its renewable and cost-effective nature. It discussed the extraction of Hydroxyapatite and extracellular

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matrix (ECM) polymers, which improved printability and bioactivity crucial for effective bone scaffolds.

Despite the promising applications, challenges such as regulatory hurdles and the need for extensive clinical trials persisted before commercialization could occur in the future. Furthermore, localized production limited broader industry investment but could stimulate indigenous technologies for biowaste utilization. Overall, biowaste-derived bioinks may contribute significantly t%li%sustainable practices in regenerative medicine while addressing environmental concerns associated with traditional synthetic materials.

Veterinary 3D Printing Market Report Highlights

The implants segment held the highest market share in 2024. This segment comprises 3D printed veterinary implants like TPLO, TPLA, etc. Key factors contributing t%li%this dominance include the ability of these implants t%li%be customized for various animal anatomies, which enhances surgical outcomes, and advancements in technology that allow for biocompatible materials, improving integration and reducing rejection rates.

The other animals segment, including horses, turtles, birds, livestock animals, etc., is projected t%li%expand at the fastest rate in the forecast period, owing t%li%the growing adoption of 3D printing in the treatment of various ailments and als%li%the emergence of specialized companies focusing on developing 3D printed products for a specific species.

The surgical planning segment is estimated t%li%grow at the highest rate over the forecast period. This can be due t%li%3D printing, which creates patient-specific anatomical models and enhances the visualization of complex structures. It enables the creation of customized surgical instruments, patient-specific models, and surgical guides, leading t%li%more efficient and less invasive procedures.

North America held the largest market share of more than 41% and is expected t%li%grow at the fastest CAGR over the forecast period. Countries from this region, such as the U.S., Canada, and Mexico, are continuously involved in activities t%li%increase and

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expand the adoption of 3D printed products across the veterinary space.

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