4D Printing Market Segmentation, Opportunities, Trends & Future Scope to 2028

Advancements in bio-fabrication technology is a key factor driving market revenue growth

Emergen Research Logo

VANCOUVER, BC, CANADA, March 21, 2022 /EINPresswire.com/ -- The 4D Printing research report also includes an insightful study of the prominent players of the industry along with their business overview, strategic planning, and business expansion plans adopted by them. This assists the readers and business owners in formulating strategic expansion and investment plans. The report focuses on mergers and acquisitions, joint ventures, collaborations, partnerships, corporate and government deals, and others.

The 4D Printing Market research study published by Emergen research is an extensive collection of insightful information about the 4D Printing industry. The report covers the 4D Printing Market segmentation along with a detailed outline of the 4D Printing market size with regards to volume and valuation. The report provides comprehensive coverage of the 4D Printing market scenario for the current period and forecast timeline of 2021-2030. The 4D Printing market report contains an in-depth analysis of the historical, current, and projected revenues for every industry vertical, segment, end-use industries, applications, and regions.

In today's rapidly changing environment, technology demands are increasing all the time. The market is expected to grow rapidly over the forecast period, owing to increasing need for technical innovation in the domains of military & defense, automotive, aerospace, and healthcare, which has resulted in increased usage of 4D printing. In addition, the latent potential for product creation and innovation is expected to supplement market demand over the forecast period.

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Rising awareness of 4D printing as an emerging technology in Industry 4.0 for biomedical, aerospace, and automobile products, combined with steady penetration of the technology in the field of material science for potential applications such as soft robotics, are other major factors expected to drive market revenue growth over the forecast period. In August 2020, a group of Swedish researchers revealed the successful 4D printing of micron-scale soft robots, with actuation systems scaled down to the micron domain and thicknesses of approximately 20 microns.

Competitive Outlook:
The global 4D Printing market is highly consolidated due to the presence of a large number of companies across this industry. These companies are known to make hefty investments in research and development projects. Also, they control a considerable portion of the overall market share, thus limiting the entry of new players into the sector. The global 4D Printing market report studies the prudent tactics undertaken by the leading market players, such as partnerships and collaborations, mergers & acquisitions, new product launches, and joint ventures.

Market Overview:
The research report on the 4D Printing market is formulated through extensive primary and secondary research along with qualitative and quantitative analysis of vital aspects of the market. The insightful data is further validated and verified by the industry professionals. The report strives to offer deeper insights into the overall market scenario of the 4D Printing business sphere.

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Some major companies in the global market report include 3D Systems Corporation, Autodesk, Inc., Hewlett-Packard Company, Organovo, Materialise NV, EnvisionTEC, Inc., Dassault Systèmes SE, ExOne, Heineken N.V., and Aerojet Rocketdyne Holdings Inc.

Some Key Highlights from the Report
•Programmable carbon fiber segment is expected to register fastest revenue CAGR during the forecast period, owing to its behavior, high stiffness, strength, and low weight properties, which makes it suitable for a wide range of industrial applications. This material can be easily transformed by printing active material on flexible carbon fiber and activating it with heat. It also aids in the reduction of failure-prone mechanisms and reduction of total weight. These factors are resulting in increasing areas of applications of 4D printed materials and this is expected to continue to drive market growth over the forecast period.

•Aerospace & defense segment revenue is expected to register a rapid growth rate over the forecast period. The shape memory technique used in 4D printing can aid in the formation of a self-deploying structures, which may be used in the aerospace sector; for example, to create air

ventilation systems. Airbus S.A.S. is also working on approaches to cool aircraft engines using a smart material that reacts to temperature.

•4D printing market in North America is expected to account for largest revenue share among other regional markets during the forecast period. Growing emphasis on technological advancements as well as rising adoption of additive manufacturing are key factors driving market growth in the U.S. Moreover, increasing 4D bio-printing in medical therapy is expected to result in more opportunities for companies operating in the region.

To know more about the report, visit @ https://www.emergenresearch.com/industry-report/4d-printing-market

For the purpose of this report, Emergen Research has segmented the global 4D printing market on the basis of material type, end-use, and region:

Material Type Outlook (Revenue, USD Million; 2019–2030)
•Programmable Carbon Fiber
•Programmable Wood - Custom Printed Wood Grain
•Programmable Textiles

End-Use Outlook (Revenue, USD Million; 2019–2030)
•Aerospace & Defense
•Automotive
•Construction
•Clothing
•Healthcare
•Utility
•Others

Regional Outlook (Revenue, USD Million; 2019–2030)
•North America
1.U.S.
2.Canada
3.Mexico
•Europe
1.Germany
2.France
3.U.K.
4.Italy
5.Spain
6.Benelux
7.Russia
8.Rest of Europe

- Asia Pacific
1. China
2. India
3. Japan
4. South Korea
5. Rest of APAC
- Latin America
1. Brazil
2. Rest of LATAM
- Middle East & Africa
1. Saudi Arabia
2. UAE
3. South Africa
4. Turkey
5. Rest of MEA

Report Highlights:
- The report conducts a comparative assessment of the leading market players participating in the global 4D Printing market.

- The report marks the notable developments that have recently taken place in the 4D Printing industry

- It details on the strategic initiatives undertaken by the market competitors for business expansion.

- It closely examines the micro- and macro-economic growth indicators, as well as the essential elements of the 4D Printing market value chain.

- The repot further jots down the major growth prospects for the emerging market players in the leading regions of the market.

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Emergen Research is a market research and consulting company that provides syndicated research reports, customized research reports, and consulting services. Our solutions purely focus on your purpose to locate, target, and analyze consumer behavior shifts across demographics, across industries, and help clients make smarter business decisions. We offer market intelligence studies ensuring relevant and fact-based research across multiple industries, including Healthcare, Touch Points, Chemicals, Types, and Energy.

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