

2021 Nanotechnology Market - Size, Share, COVID Impact Analysis and Forecast to 2027

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Abstracts

The Global Nanotechnology market is estimated to be \$51.3 Billion in 2019 with the market estimated to grow at a CAGR of 14.66% in the forecast period 2020-2026 to reach a market value of \$131 Billion by the end of 2026.

Nanotechnology is an enabling technology that involves creation or manipulation of individual atoms and molecules to produce materials and devices at the nano-scale (10-9m), exhibiting unique biological, physical and chemical properties. These types of materials or devices have relatively larger surface-area-to-mass ratio that changes the strength and other features.

Major Trends, Drivers and Challenges

Medical and Life sciences based applications will be the future growth areas - Nano-scale materials have been the prime focus of nanotechnology companies over the past decade across applications. Further, future market prospects and opportunities include medical and life-science applications where nanotechnology offers interactions with cells at molecular level.

Continuous patent development ensures growth in the market - The figure below presents the trends and directions of new technology being developed. Patents being filed with respect to the healthcare sector comprises of ophthalmic drug delivery, nano-capsules and others. In addition, various methods to obtain nano-composites, production of aluminium oxide nano-particles, are also being filed in recent years.

The US Nanotechnology technology funding more inclined towards medical and life science engineering - As a part of the National Nanotechnology Initiative, the US budget

requests investments of over \$1.7 billion for 2021.

Manufacturing challenges - Nano-size products like transistors and nano-wires can cross blood-brain barriers and can cause serious challenges; manufacturing nano-particles involves high expenditures;

Leading Segments Information:

Semiconductors is the leading application segment for the nanotechnology market generating value of \$9.7 Billion in 2019, growing at a CAGR of 15.3% through the forecast period 2020- 2026.

On products front, nanomaterials segment is the dominating segment for the nanotechnology market growing at a CAGR of 14.6% over the forecast period 2020-2026.

On Regional front, North America is the largest consuming regions of global Nanotechnology market in 2019 with US leading the Nanotechnology market.

The market is highly fragmented with small and medium sized companies and institutes playing the major role in all the countries considered.

Nanomaterials refer to substances that have structural components smaller than 100 nanometres. This type of substances requires further processing or augmenting of new materials. Nanomaterials segment is the leading segment in the global nanotechnology market, accounting for 80% of the overall market.

Companies Profiled –

3M Company

Arkema SA

Quantum Materials Corp

Thermo Fisher Scientific Inc

Showa Denko K.K

Nanophase Technologies Corporation

Segmentation

Global Nanotechnology market, By Type

Nano-materials nano-tools

Nano-devices

Global Nanotechnology market, By Application Segment

Pharmaceuticals/Healthcare

Food & Agriculture

Semiconductors

Military & Aeronautics

Automobile

Consumer Electronics

Textiles

Chemicals

Others (Environment, Natural Security)

Global Nanotechnology market, By Geography

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Spain, Italy, Russia, Rest of Europe)

Asia-Pacific (China, India, Japan, South Korea, Australia, Rest of APAC)

Middle East and Africa (Saudi Arabia, South Africa, Rest of MEA)

South and Central America (Brazil, Argentina, Chile, Rest of SCA)

Report Scope-

The report- '2021 Nanotechnology Market - Size, Share, COVID Impact Analysis and Forecast to 2027' presents growth projections in the Nanotechnology Market between 2021 and 2027 for companies operating across different types, applications, and end-user verticals.

Short-term and long-term trends affecting the market landscape are included in the research. Further, market drivers, restraints, and potential opportunities are also provided in the report.

The Nanotechnology Market report computes the 2020 market value in revenue terms based on the average Nanotechnology prices and sales/revenue models of key companies operating in the Nanotechnology Industry. The study forecasts the market size to 2027 for different types of Nanotechnology and provides respective market share and growth rates.

The study discusses technological innovations and the potential shift in demand among various products in the Nanotechnology Market, over the forecast period. The leading five companies in the Nanotechnology Industry together with their products, key strategies, and comparisons are provided.

The Nanotechnology Market size, share, and outlook across different types and applications are provided at geographic levels of North America, Asia Pacific, Europe, Middle East Africa, South and Central America. Further, country-level Nanotechnology Market value is also provided.

All recent developments in Nanotechnology Industry including mergers, acquisitions, contract awards, licenses, product launches, and expansion plans are included in the report.

Base Year- 2020; Forecast period: 2021- 2027

Publication frequency- Every six months

Research Methodology- Data triangulation with top-down and Bottom-up

approach are used for market size

Scope of the Report -

Global Nanotechnology Industry size, 2020- 2027

Market trends, drivers, restraints, and opportunities

Porter's Five forces analysis

Types of Nanotechnology , 2020-2027

Nanotechnology applications and end-user verticals market size, 2020- 2027

Nanotechnology Market size across countries, 2020- 2027

5 leading companies in the industry- overview, key strategies, financials, and products

Latest market news and developments

Additional support -

All the data presented in tables and charts of the report is provided in a separate Excel document

Print authentication extended

10% free customization to include any specific data/analysis to match with the requirement

3 months of analyst support

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