

## **Nanotechnology Market Size and Share Outlook - Forecast Trends and Growth Analysis Report (2025-2034)**

Market Report | 2025-08-13 | 157 pages | EMR Inc.

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### **Report description:**

The global nanotechnology market attained a value of nearly USD 1.76 Billion in 2024 . The market is further expected to grow at a CAGR of 10.00% during the forecast period of 2025-2034 to reach a value of USD 4.56 Billion by 2034 .

Rapid advancement in technology is aiding the growth of the overall nanotechnology market. Nanotechnology finds use in communication, medicine, transportation, agriculture, energy, materials and manufacturing, and consumer products, among others.

The growing acceptance and increased application of nanotechnology for diverse purposes is one of the major drivers contributing towards the growth of the nanotechnology market globally.

### Global Nanotechnology Market Segmentation

The nanotechnology market includes the production and application of physical, chemical, and biological systems and devices on scales ranging from individual atoms or molecules to around 100 nanometres. The global nanotechnology market can be broadly categorised based on its types, applications, and regions.

### Market Breakup by Type

- Nano Sensors
  - ??- Optical Nanosensor
  - ??- Chemical Nanosensor
  - ??- Physical Nanosensor
  - ??- Biosensors

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??- Others

- Nano Device

??- Nanomanipulator

??- Nanomechanical Test Instruments

??- Nanoscale Infrared spectrometers

??- Others

#### Market Breakup by Application

- Electronics

- Energy

- Chemical Manufacturing

- Aerospace and Defence

- Healthcare

- Others

#### Market Breakup by Region

- North America

- Europe

- Asia Pacific

- Latin America

- Middle East and Africa

#### Global Nanotechnology Market Analysis

Factors such as the technological advancements in nanotech devices and the rise in the adoption of nanotechnology in medical diagnosis and imaging are driving the growth of the global nanotechnology market. The rise in efforts by the governments across the nations, increased R&D funding, and the advent of self-powered nanotech devices are expected to offer lucrative opportunities for the nanotechnology market growth over the forecast period. Problems arising from the installation of nanodevices under extreme conditions and high technology costs, however, serve as significant obstacles, hampering the growth of the nanotechnology market.

#### Global Nanotechnology Market: Competitive Landscape

Key nanotechnology market players are actively investing in research and development activities (R&D) to create new nanomaterials, explore new applications of nanotechnology, and drive technological advancements. Nanotechnology companies are also focusing on developing sustainable nanotechnologies for use in applications such as renewable energy, water purification, and environmental monitoring, among others.

#### Applied Nanotech Inc

Applied Nanotech Inc, headquartered in Texas, United States and founded in 1989, is a company that develops novel nano-materials and processes that form the foundation of sectors like defence, nuclear energy, high-energy physics, manufacturing, and microelectronics. Some of its processes and products are carbon foils and unique printable conductive

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metallic inks and paste materials.

#### Advanced Nano Products Co Ltd

Advanced Nano Products Co Ltd, founded in 2000 and headquartered in Sejong, South Korea, is a leader in the nanotechnology industry. It is engaged in developing and supplying advanced nanomaterials to businesses in sectors such as semiconductor, display, photovoltaic, and speciality film, among others.

#### Bruker Corporation

Bruker Corporation, founded in 1960 and headquartered in Massachusetts, United States, is a company that offers high-value analytics and diagnostics solutions and high-performance scientific instruments to explore life and materials at cellular, molecular, and microscopic levels. The company also offers high-value and differentiated life science and diagnostics systems and solutions in clinical phenomics research, preclinical imaging, functional structural and condensate biology, proteomics and multiomics, clinical microbiology and molecular diagnostics, and spatial and single-cell biology.

#### Espin Technology Inc.

Espin Technology Inc., headquartered in Tennessee, United States, and established in 1998, is a high-tech manufacturing company that specialises in custom-engineered nanofiber production. Its nanofibres are widely used in different applications, including bio-protective military and medical clothing, drug delivery systems, filters, barrier fabrics, cosmetic additives, fuel cell membranes, and tissue scaffolding, among others.

Other key players in the nanotechnology market include Altair Nanotechnologies Inc., Biosensors International Group Ltd., Imina Technologies SA, Nanonics Imaging Ltd., DuPont de Nemours, Inc., and Arkema Group, among others.

#### More Insights On

Nanotechnology in Medical Devices Market

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