

# **Nanotechnology Market by Type (Nanodevices and Nanosensors) and Application (Electronics, Energy, Chemical Manufacturing, Aerospace & Defense, Healthcare, and Others): Global Opportunity Analysis and Industry Forecast, 2018–2025**

<https://marketpublishers.com/r/NEACE0A813FEN.html>

Date: June 2019

Pages: 180

Price: US\$ 5,370.00 (Single User License)

ID: NEACE0A813FEN

## **Abstracts**

The term nanotechnology describes a range of technologies performed on a nanometer scale with widespread applications in various industries. Nanotechnology encompasses the production and application of physical, chemical, and biological system at scales ranging from individual atoms or molecules to around 100 nanometers. Using nanotechnology, materials can effectively be made stronger, lighter, more durable, more reactive, more sieve-like, or better electrical conductors.

Technological development by the emerging economies in Asia-Pacific boosts the growth of the nanotechnology market. The regional growth is expected to be influenced by high demand for nanotechnology in medical imaging. Moreover, various technological advancements related to automotive and healthcare vertical due to government initiatives such as increased investment in R&D propel the market growth. For instance, China is building the world's largest multifunctional research platform for nanotechnology, which would help develop more powerful computers and intelligent robots. The Vacuum Interconnected Nano-X Research Facility in Suzhou, Jiangsu Province integrates the state-of-art capabilities of material growth, device fabrication, and testing in one ultra-high vacuum environment. Nano-X is expected to be incorporated into China's national research infrastructure system, and to become a world-class open platform for research and development in nanoscience and nanotechnology, providing advanced technical support for the national strategy of high-end technologies.

Factors such as upsurge in adoption of nanotechnology in medical diagnosis & imaging and technological advancements in nanotech devices drive the growth of the market globally. However, issues pertaining to the deployment of nanodevices in extreme conditions and high cost of the technology act as major barriers, thus restraining the market growth. Conversely, increase in support and R&D funding from government organizations and emergence of self-powered nanotech devices are expected to offer remunerative opportunities for market expansion.

The global nanotechnology market is segmented on the basis of type, application, and region. Based on type, the market is bifurcated into nanodevices and nanosensors. Nanodevices is subsegmented into nanomanipulators, nanomechanical test instruments, nanoscale infrared spectrometers, and others. Nanosensor is further divided into optical nanosensor, biological nanosensor, chemical nanosensor, physical nanosensor, and others. By application, the market is fragmented into electronics, energy, chemical manufacturing, aerospace & defense, healthcare, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA along with their prominent countries.

The key players profiled in the report include Altair Nanotechnologies Inc., Applied Nanotech Holdings Inc., Thermofisher Scientific, Imina Technologies Sa, Bruker Axs, Kleindiek Nanotechnik Gmbh, eSpin Technologies, Inc., Advanced Nano Products, Biosensor International, and Nanoics Imaging Ltd.

These key players have adopted strategies such as product portfolio expansion, mergers & acquisitions, agreements, geographical expansion, and collaborations to enhance their market penetration.

## KEY BENEFITS FOR STAKEHOLDERS

This study includes the analytical depiction of the global nanotechnology along with the current trends and future estimations to determine the imminent investment pockets.

The report presents information regarding the key drivers, restraints, and opportunities.

The current market is quantitatively analyzed from 2018 to 2025 to highlight the financial competency of the industry.

Porter's five forces analysis illustrates the potency of the buyers and suppliers in the industry.

## GLOBAL NANOTECHNOLOGY MARKET SEGMENTATION

### BY TYPE

#### Nano Devices

Nanomanipulators

Nanomechanical Test Instruments

Nanoscale Infrared Spectrometers

Others

#### Nanosensors

Optical Nanosensor

Biological Nanosensor

Chemical Nanosensor

Physical Nanosensor

Others

### BY APPLICATION

Electronics

Chemical Manufacturing

Energy

Aerospace & Defense

Healthcare

Others

## BY REGION

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Russia

Rest of Europe

Asia-Pacific

China

Japan

India

Australia

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

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