

# Nanorobotics Market Emerging Trends, Demand, Revenue and Forecasts Research 2028

*Rising investment in urgent care and increasing global geriatric population are key factors driving revenue growth of the global nanorobotics market*

SURREY, BRITISH COLUMBIA, CANADA ,  
March 30, 2022 /EINPresswire.com/ --  
Emergen Research latest document,  
titled 'Global Nanorobotics market -  
Forecast to 2027,' is one of the most  
sought-after market reports involving  
an in-depth analysis of the global  
Nanorobotics market. The report's  
authors have offered necessary details

on the latest Nanorobotics market trends and the crucial parameters impacting both short-term and long-term market growth. Its panoramic view of the Nanorobotics industry entails useful insights into the estimated Nanorobotics market size, revenue share, and sales & distribution network such helpful market insights are bound to help readers outline this industry's key outcomes in the near future. Those are further intended to assist businesses involved in this sector in sound decision-making and formulating lucrative business plans. The primary addressees of this report include some of the globally renowned venture capitalists. The report offers these individuals a vivid description of the competitive spectrum of the global Nanorobotics market.

Nanorobots are being used to perform complex tasks and procedures and help to reduce human error in various procedures and test in the healthcare industry. Latest studies in DNA nanotechnology support large-scale utility of nanorobots in the healthcare industry. Long-term returns derived from nanobots is encouraging market players to enter into long-term partnerships and to invest majorly in further research and development in nanotechnology. Upsurge in demand for miniaturized devices along with rapid rate of automation across various sectors are other factors fueling market revenue growth. Advancements in features of nanorobotics will further drive market growth. However, increase in complexities with miniaturization is a key factor hampering revenue growth of the market currently.



Rising investment in urgent care and increasing global geriatric population are key factors driving revenue growth of the global nanorobotics market

Nanorobotics Market Size – USD 6.12 Billion in 2020, Market Growth – at a CAGR of 10.9%, Market Trends – Advancements in technology

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Magnetically guided nanorobotics segment revenue is expected to register a significantly rapid rate during the forecast period. This can be attributed to increasing demand for delicate applications as magnetically guided nanorobots provide high degree of maneuverability in complex procedures. Nanorobotics is employed to carry and deliver live cells to targeted areas in the body, which further expected to advance, and this is expected to continue to drive revenue growth of this segment over the forecast period.

Nanomedicine segment accounted for largest revenue share in 2020 due to its commercialization in the healthcare industry on large scale for drug delivery, in vitro diagnostics, in vivo imaging, biomaterial, drug therapy, and active implants.

North America accounted for largest revenue share in 2020 due to high spending on healthcare and increased investment in research & development of nanotechnology. Another contributing factor is increased demand for nanorobotics from the National Science Foundation (NSF) and the Defense Advanced Research Projects Agency (DARPA). Various clinical trials and pipeline projects in the U.S. for development of nanorobotics in various areas are also fueling market revenue growth.

Major players in the market include Bruker, Oxford Instruments, Toronto Nano Instrumentation, JEOL Ltd., Imina Technologies, Klocke Nanotechnik, Thermo-Fisher Scientific Inc., Ginkgo Bioworks, Agilent Technologies, and Park Systems.

The report further offers a complete value chain analysis along with an analysis of the downstream buyers and upstream raw materials. The study focuses on global trends, regulatory frameworks, and macro- and micro-economic factors. The report also provides an extensive analysis of the segment and sub-segmented expected to dominate the market over the projected period. The report offers a forecast estimation of the market with regards to the analysis of the market segmentation, including product type, end-user industries, application spectrum, and other segments.

Market Scope:

One of the report's central components is the broad Nanorobotics market segmentation that includes the product type gamut, application spectrum, end-user industry landscape, significant

geographical regions, and the top market contenders. The report contains unbiased industry expert opinions on the current market scenario, past market performance, production & consumption rates, demand & supply ratio, and revenue generation forecasts over the estimated period. The key players' financial positions, along with their gross profits, sales volumes, sales revenue, manufacturing costs, and other financial ratios, have been accurately gauged in the report. Furthermore, several analytical tools like investment assessment, SWOT analysis, and Porter's Five Forces Analysis have been implemented by our analysts' team to evaluate the production and distribution capacities of the Nanorobotics market players.

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For the purpose of this report, Emergen Research has segmented the global nanorobotics market based on type, application, and region:

Nanomanipulator

Electron Microscope (EM)

Scanning Electron Microscope (SEM)

Transmission Electron Microscope (TEM)

Scanning Probe Microscope (SPM)

Atomic Force Microscopes (AFM)

Scanning Tunneling Microscope (STM)

Type Outlook (Revenue, USD Billion; 2018–2028)

Bio-Nanorobotics

Magnetically Guided

Bacteria-Based

Application Outlook (Revenue, USD Billion; 2018–2028)

Nanomedicine

Biomedical

Mechanical

Others (Space and Oil & Gas)

Market Taxonomy:

Chapter 1: Methodology & Scope

Definition and forecast parameters

Methodology and forecast parameters

Data Sources

Chapter 2:

Executive Summary

Business trends

Regional trends

Product trends

End-use trends

Chapter 3:

Industry Insights

Industry segmentation

Industry landscape

Vendor matrix

Technological and innovation landscape

Chapter 4:

Regional Landscape

Chapter 5:

Company Profile

Business Overview

Financial Data

Product Landscape

Strategic Outlook

Key questions addressed in the report:

What are the key factors driving the global Nanorobotics market?

Who are the key manufacturers in this market space?

Who are the distributors, traders and dealers of this market?

What are the market opportunities and risks affecting the performance of the vendors in the global Nanorobotics market?

What are the sales and revenue estimations for the top manufacturers in this market over the projected timeline?

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