

# Nanorobotics Market Survey, Analysis, Share, Company Profiles and Forecast by 2028

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

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[Nanorobotics market](#) has recently added a report to 2028 to its repository, which comprises of data relating to the market size, share, value, and volume, production processes, revenue generation, the regional analysis of the business

vertical, along with the outcomes of analytical tools including, SWOT analysis and Porter's Five Forces analysis. The report highlights the growth opportunities and challenges that industry players might encounter in the forecast years, along with an elaborate competitive landscape and expansion strategies adopted by the companies functioning in the Market.

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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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.

In March 2021, Bionaut Labs, which is a company that is developing nanorobots to deliver drugs for treatment of brain diseases, announced that it had received a funding of USD 20 million led by Khosla Ventures and Upfront Ventures. The funds will be used to guide Bionaut Labs through clinical and preclinical development of its nanorobot technology.

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.

Read More: <https://www.emergenresearch.com/industry-report/nanorobotics-market>

Radical Highlights of the Nanorobotics Market Report:

Comprehensive overview of the Nanorobotics market along with analysis of the changing dynamics of the market

Growth Nanorobotics Market segments throughout the forecast period

Regional and global analysis of the market players, including their market share and global position

Growth strategies adopted by key market players to combat the impact of the COVID-19

pandemic on the market

Impact of the technological developments and R&D advancements on the Nanorobotics market

Information about profit-making strategies and developmental strategies of major companies and manufacturers

Insightful information for the new entrants willing to enter the market

Details and insights about business expansion strategies, product launches, and other collaborations

The report incorporates advanced analytical tools such as SWOT analysis, Porter's Five Forces Analysis, feasibility analysis, and investment return analysis

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

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

Nanomanipulator

Electron Microscope (EM)

Scanning Electron Microscope (SEM)

Transmission Electron Microscope (TEM)

Scanning Probe Microscope (SPM)

Atomic Force Microscopes (AFM)

Scanning Tunneling Microscope (STM)

Bio-Nanorobotics

Magnetically Guided

Bacteria-Based

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

Nanomedicine

Biomedical

Mechanical

Others (Space and Oil & Gas)

Regional Analysis of the Nanorobotics Market:

North America (U.S., Canada)

Europe (U.K., Italy, Germany, France, Rest of EU)

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

Latin America (Chile, Brazil, Argentina, Rest of Latin America)

Middle East & Africa (Saudi Arabia, U.A.E., South Africa, Rest of MEA)

Elucidating the competitive landscape of the Global Nanorobotics Market:

The global Nanorobotics market report offers viable insights into the competitive spectrum of the Nanorobotics business sphere.

The report systematically profiles the company information of each market player.

It identifies the estimated industry share, production facilities, development prospects, and geographies served by each market player.

The study showcases the extensive product portfolios of the prominent market contenders.

It offers critical data & information about the product application scope and the end-user landscape.

The study provides salient information about the pricing models of the products offered by these companies. Moreover, it determines the gross profits and losses experienced by them throughout their market tenures.

Key Objectives of the Report:

Analysis and estimation of the Nanorobotics market size and share for the projected period of 2020-2027

Extensive analysis of the key players of the market by SWOT analysis and Porter's Five Forces analysis to impart a clear understanding of the competitive landscape

Study of current and emerging trends, restraints, drivers, opportunities, challenges, growth prospects, and risks of the global Nanorobotics market

Analysis of the growth prospects for the stakeholders and investors through the study of the promising segments

Strategic recommendations to the established players and new entrants to capitalize on the emerging growth opportunities

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