

Bio-Inspired Robotics - Global Market Outlook (2017-2026)

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Abstracts

According to Statistics MRC, the Global Bio-Inspired Robotics market accounted at a CAGR of 17.7% during the forecast period. Some of the key factors such as increasing innovative structures and computing with sensory-motor coordination and learning to achieve intelligence, flexibility, stability, and adaptation for emergent robotic applications, such as manipulation, learning, and control are driving the market growth. However, high cost of installation is the restraining factor for the market growth.

Bio-inspired robotics is about studying biological systems and look for the mechanisms that may solve a problem in the engineering field. The designer should then try to simplify and enhance the mechanism for specific task of interest. Bio-inspired roboticists are usually interested in biosensors (e.g. eye), bioactuators (e.g. muscle), or biomaterials (e.g. spider silk). Most of the robots have some type of locomotion system.

By product type, humanoid robots segment is likely to grow significantly during the forecast period as they are used for research purpose and were originally developed to build better orthosis and prosthesis for human beings. They are used for applications such as personal assistance, reception, work at industries, or companionship. By geography, Asia Pacific is expected to observe significant growth as it is likely to adopt humanoids for almost all the significant applications and the elderly population in the nations like China and Japan is on the ascent, the region is expected to utilize humanoids for the individual help and care application.

Some of the key players in this market include DJI, Boston Dynamics, Agility Robotics, ABB, Vincross and FANUC.

Product Types Covered:

Swarm Robotics

Modular Robots

Soft Robots

Humanoid Robots

Other Product Types

Applications Covered:

Commercial

Industrial

Oil and Gas

Other Applications

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

Market share assessments for the regional and country level segments

Strategic recommendations for the new entrants

Market forecasts for a minimum of 9 years of all the mentioned segments, sub segments and the regional markets

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic analysis: Drivers and Constraints, Product/Technology Analysis, Porter's five forces analysis, SWOT analysis etc.

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the clients interest (Note: Depends of feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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