

Educational Robot Market Size, Share & Trends Analysis Report By Product Type (Non-Humanoid, Humanoid), By Application (Primary Education, Higher Education), By Region (APAC, Europe, North America), And Segment Forecasts, 2022 - 2030

<https://marketpublishers.com/r/EC2607ED011BEN.html>

Date: November 2022

Pages: 171

Price: US\$ 4,950.00 (Single User License)

ID: EC2607ED011BEN

Abstracts

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Educational Robot Market Growth & Trends

The global educational robot market size is expected to reach USD 5.5 billion by 2030, according to a new report by Grand View Research, Inc. The market is expected to expand at a CAGR of 23.4% from 2022 to 2030. The growth can be credited to the growing inclination toward interactive learning across educational institutions.

Educational robots serve as learning companions that utilize real-life educational models to help students obtain new skills by enhancing the learning process.

Educational robots offer information in the fields of Science, Technology, Engineering, Art, and Mathematics (STEAM), as well as computer programming, linguistics, history, and geography. Moreover, these robots also help keep young students involved, delighted, and educated, as they comprise advanced mechanics, voice control, and gestures.

The global outbreak of the COVID-19 pandemic seriously impacted the educational robots market as several modifications were introduced to the educational system enabling students to stay at home and continue their education. However, it deprived students of the hands-on learning experience. On the other hand, the temporary closure of universities, schools, and training centers and disrupted supply chains also made a serious effect on the industry.

The growth of the educational robots market will be further proliferated by favorable government initiatives across several countries. For instance, in 2022, the U.S. government increased funding for STEM activities. The funding for Student Support and Academic Enrichment Grants increased to USD 1.3 billion, Career and Technical Education (CTE) to USD 1.4 billion, Supporting Effective Instruction State Grants to USD 2.2 billion, and 21st Century Community Learning Centers to USD 1.3 billion.

Educational Robot Market Report Highlights

The non-humanoid product type segment accounted for the largest revenue share in 2021 and is estimated to follow a similar trend over the forecast period

The growth of the humanoid segment across the educational robots market can be credited to increased product adoption due to their human-like presence resembling the real-life teachers

The primary education segment is expected to record a CAGR of more than 26.0% from 2022 to 2030 with the increasing adoption of robots by educational institutions to encourage STEAM education among children aged below 10 years

North America captured the highest market share in 2021 owing to the presence of a large number of market players and increasing investments from government organizations in robotics

Asia Pacific is estimated to record the highest growth rate over the forecast period on account of increasing investments by the government and Non-Governmental Organizations (NGOs) toward advanced education across the region

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