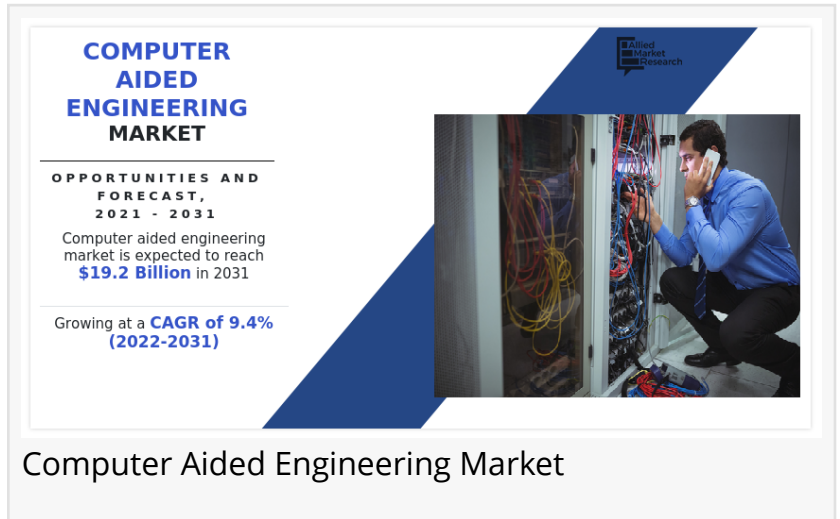# Computer Aided Engineering Market Dynamic Growth Factors, and Outlook until 2031 | ESI Group Siemens AG

WILMINGTON, DE, UNITED STATES, February 12, 2024 /EINPresswire.com/ -- Allied Market Research published a report titled, "Computer Aided Engineering Market by Type (Finite Element Analysis, Computational Fluid Dynamics, Multibody Dynamics, Optimization and Simulation), by Deployment Model (On-Premise, Cloud), by End User (Automotive, Electronics, Defense, Healthcare, Industrial equipment, Others): Global Opportunity Analysis and Industry Forecast, 2021-2031".

COMPUTER AIDED ENGINEERING MARKET

OPPORTUNITIES AND FORECAST, 2021 - 2031

Computer aided engineering market is expected to reach **$19.2 Billion** in 2031

Growing at a **CAGR of 9.4% (2022-2031)**

Computer Aided Engineering Market

According to the report, the global computer aided engineering industry generated $8 billion in 2021, and is projected to reach $19.2 billion by 2031, growing at a CAGR of 9.4% from 2022 to 2031.

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Computer aided engineering software optimizes engineering tasks. These tools are generally used to analyze the performance and robustness of assemblies and components. Computer aided engineering is used in many areas, such as aviation, space, automation, and shipbuilding. Furthermore, the key factors that drive the computer aided engineering (CAE) market trends include penetration of IoT, increased shift from on-premise computing to cloud-based computing, and increase in investment on R&D activities primarily drive the growth of the global computer aided engineering market. However, high costs of investments in obtaining commercial licenses may hamper the market growth to some extent. On the other hand, increase in adoption of cloud-based solutions is expected to provide lucrative opportunities for the market growth during the forecast period.

Increase in drastic shift from on-premise computing to cloud-based computing among people due to reduced cost expenses related to hardware acquisition and software licensing, installation, and support, increase in the adoption of smartphones and tablets among people, surge in internet penetration, and prevalence of innovative technologies such as IoT are expected to drive the growth of the global computer aided engineering market. In addition, miniaturization of the electronic devices and sensors, along with the lower connectivity costs are further expected to create ample opportunities for the industry.

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COVID-19 Scenario:

The outbreak of COVID-19 has had a positive impact on the growth of the global computer-aided engineering market, owing to the occurrence of lockdowns in various countries across the globe.
Lockdowns opened the door for innovation and resulted in the rapid adoption of computer aided engineering solutions due to the unprecedented situations around the world.
With the world currently in the grip of the coronavirus pandemic, CAE has moved to the forefront to provide crucial training for healthcare personnel, so that diagnoses can be quickly formulated, and treatment administered.
Thus, various companies across the globe make effective use of computer-aided engineering to respond to surge in demand during the pandemic.

Based on region, the market across North America held the largest market share in 2021, holding nearly two-fifths of the global computer aided engineering market. This is due to rapid penetration of IoT and increasing expenses for defense in the region. The LAMEA region, on the other hand, is expected to cite the fastest CAGR of 11.5% during the forecast period. Rise in expansion trend among key market players to increase their market presence in LAMEA primarily drives the growth of the market in this region. Middle East and South Africa have witnessed increase in adoption of digitalized engineering and industrialization, which has increased demand for computer-aided engineering market growth in this region.

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Prominent Players of the Market:

ANSYS, Inc.
Altair Engineering
Autodesk, Inc.
Dassault Systemes
Bentley Systems, Inc.
ESI Group

Siemens AG
Mentor Graphics Corporation
Seiko Epson Corporation
MSC Software Corporation

The defense segment is expected to experience fastest growth in the coming years, owing adopt advanced and rapid manufacturing technologies that encourage innovation level and accelerate supply chain.

About Us:
Allied Market Research (AMR) is a full-service market research and business-consulting wing of Allied Analytics LLP based in Portland, Oregon. Allied Market Research provides global enterprises as well as medium and small businesses with unmatched quality of "Market Research Reports Insights" and "Business Intelligence Solutions." AMR has a targeted view to provide business insights and consulting to assist its clients to make strategic business decisions and achieve sustainable growth in their respective market domain.

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