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Global Aerospace Engineering Services Outsourcing Market Size, Share & Trends Analysis Report, By Service (Mechanical Engineering, Electric/Electronic Engineering, Embedded Software Engineering, Others), By Function (Design, Simulation & Digital Validation, Production Process, Maintenance Process), By Location (On-shore, Off-shore), By Component (Hardware, Software), and Regional Forecasts 2022-2032

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Abstracts

The Global Aerospace Engineering Services Outsourcing (ESO) Market is valued at approximately USD 116.95 billion in 2023 and is anticipated to grow with a robust CAGR of 24.9% over the forecast period 2024-2032. The market growth is primarily driven by the rising complexity of aerospace technologies, growing demand for cost-efficient operations, and the need to focus on core competencies by outsourcing specialized engineering tasks.

Engineering services outsourcing has become a strategic approach for aerospace companies to enhance their capabilities and reduce overhead costs. It enables companies to access a global talent pool, optimize design processes, reduce production cycles, and achieve faster time-to-market. The increased adoption of advanced materials, autonomous flight systems, and embedded software solutions in the aerospace industry has further boosted the demand for ESO services across commercial, military, and private aviation sectors.

Technological Advancements: The aerospace industry is witnessing the integration of

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cutting-edge technologies such as artificial intelligence (AI), machine learning (ML), Internet of Things (IoT), and data analytics. These technologies demand specialized engineering skills for designing, testing, and maintaining components, which ESO providers deliver at scale.

Rising Commercial Air Traffic: Rapidly increasing passenger traffic, particularly in Asia Pacific and the Middle East, has led to fleet expansion by airlines. The growing number of aircraft orders necessitates extensive engineering support, fueling the demand for design, simulation, and production outsourcing services.

Post-Pandemic Recovery and Industry Resilience: The aviation sector’s recovery from the COVID-19 pandemic has brought a surge in maintenance, repair, and overhaul (MRO) activities. Engineering service providers play a critical role in assisting companies to optimize operations and manage aging aircraft fleets.

Cost Optimization and Globalization of Talent Pools: Companies in the aerospace sector face pressure to remain competitive while meeting stringent safety and efficiency standards. By outsourcing engineering tasks to regions with a lower cost of talent, such as India and Southeast Asia, organizations can achieve cost savings without compromising quality.

Regional Insights- North America dominated the aerospace ESO market in 2023, accounting for 34.4% of global revenue. The region's well-established aerospace ecosystem, including leading players like Boeing, Lockheed Martin, and Raytheon Technologies, drives the demand for outsourced engineering solutions. The U.S. market, supported by a robust R&D base and substantial investments in advanced technologies, continues to lead the global aerospace industry.

Asia Pacific is poised to grow at the fastest CAGR during the forecast period, propelled by surging air passenger traffic, increased defense spending, and government initiatives to boost local manufacturing capabilities. India, in particular, has emerged as a hub for aerospace engineering services outsourcing, owing to its vast pool of qualified engineers and competitive labor costs.

Europe remains a significant market for ESO services, led by prominent OEMs such as Airbus and Rolls-Royce. The region's focus on sustainability and innovation has fueled demand for advanced engineering services to develop lightweight and fuel-efficient aircraft.

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Major Market Players Included in This Report:

1. Altair Engineering Inc.

2. Alten Group

3. Capgemini

4. Bertrandt AG

5. EWI

6. Honeywell International Inc.

7. ITK Engineering GmbH

8. L&T Technology Services Limited

9. LISI GROUP

10. Teledyne Technologies Incorporated

11. BAE Systems

12. L3Harris Technologies, Inc.

13. Elbit Systems Ltd.

14. RTX

15. Sogeti

The Detailed Segments and Sub-segment of the Market Are Explained Below:

By Service

Mechanical Engineering

Electric/Electronic Engineering

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Embedded Software Engineering

Others

By Function

Design

Simulation & Digital Validation

Production Process

Maintenance Process

By Location

On-shore

Off-shore

By Component

Hardware

Software

Software Licensing

Software Services

By Region:

North America

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U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Spain

Rest of Europe

Asia Pacific

Japan

China

India

South Korea

Rest of Asia Pacific

Latin America

Brazil

Rest of Latin America

Middle East & Africa

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Saudi Arabia

South Africa

Rest of Middle East & Africa

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2030.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level insights.

Competitive landscape analysis with profiles of key players.

Analysis of key business strategies and recommendations for future market approaches.

Demand-side and supply-side market analysis.

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CHAPTER 11. RESEARCH PROCESS

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