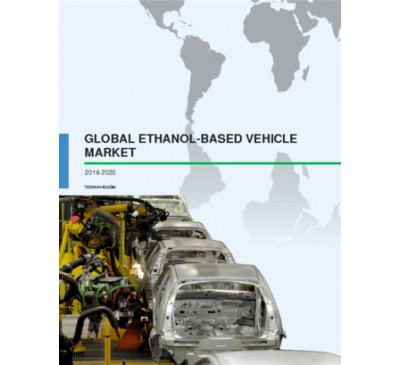
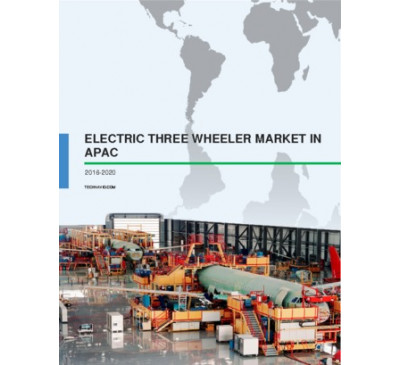
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**Companies with Local Manufacturing Capabilities Will Witness Increased Acceptance and Success**

*Region : Asia Pacific*

The Chinese market is being consolidated into AVIC and COMAC. AVIC is a market leader in Chinese Aerospace Manufacturing. And unlike the ARJ21 development, China is coordinating its efforts for C919 development. With these developments, licensed production, and growing domestic demand, the Chinese aerospace manufacturing market is expected to grow ...

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**Strategies and Tactics such as 3D Printing and Internet of Things to Accelerate Margin Growth in a Transforming Space**

*Region : Global*

The commercial aircraft market is at record production levels. However, military aircraft, commercial rotary wing aircraft, and business aircraft are all flat to declining markets. Defense budgets globally are under pressure, and the military aircraft market reflects that strain. Growth for most manufacturing companies in these markets will be diff...

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*Region : Asia Pacific*

Asia Pacific represents a major source of demand for commercial aircraft over the next two decades. Yet these same markets currently meet only a small portion of the industrys sourcing needs. But the ground situation is changing and APAC is increasingly well positioned to supply western aerospace OEMs. In spite of the low cost manufacturing base i...

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*Region : Asia Pacific*

The recent global recession took a heavy toll on many industries, evident in waves of layoffs, lost revenue, bankruptcies, and a general sense of uncertainly about the future. In comparison, the aerospace manufacturing industry, as a whole, continues to buck the trend-finishing 2010 with record results. Asia Pacific represents a major market for th...

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*Region : Global*

This issue of Advanced Manufacturing TOE notes developments and innovations in composites manufacturing for aircraft, including jet engines, hybrid airships, supersonic aircraft, rockets. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to manufacturing and industrial automation on a...

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**Nine Dimensional Technology Assessment of Need for Production Efficiency in Manufacturing**

*Region : Global*

With inspection technologies playing a crucial role in manufacturing industry, need for high quality and streamlined production processes propels advances in the industry. Development of advanced measurement technologies in diverse production environment are driven by the need to improve production efficiency to deliver high quality products at aff...

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**Manufacturing and Automation technologies that will have the highest impact in 2015**

*Region : Global*

The research service delves deeper into advanced manufacturing and automation technologies from various technology and market attractiveness metrics such as patent, funding, market potential, applications impact, regional adoption, innovation landscape, roadmap and disruptiveness potential. Technologies covered in this report include: 3D printing, ...

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**Advanced manufacturing and automation technologies that will have the highest impact in 2016**

*Region : Global*

An array of new technologies driven by the digitalization trend will empower manufacturers to set foot into the digital era in 2016. This year will progress as a strategic year when most manufacturing companies will engage in information gathering and drawing strategies to make best use of new technologies into their operations. In the forthcoming ...

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**Faster, Efficient and Greener Manufacturing Technologies of the Future**

*Region : Global*

The Technical Insights division of Frost & Sullivan evaluated technology trends in the advanced manufacturing and automation cluster, and identified key technology trends that are likely to have an impact in key application segments during the near, medium, and long terms.The study captures significance of the technology and its impact on the indus...

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*Region : Global*

This issue of Advanced Manufacturing TOE identifies innovations in composites manufacturing, hybrid manufacturing techniques, manufacturing of 3D hierarchical materials, friction stir additive manufacturing. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to manufacturing and indust...

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[**Opportunities in Defence Electronics Manufacturing in India**](https://store.frost.com/opportunities-in-defence-electronics-manufacturing-in-india.html?)

*Region : South Asia, Middle East & North Africa*

India has one of the largest budgets for Defence. The allocated Defence budget for 2015-16 is INR 2,467.27 Billion, which is 7.7% more than 2014-15’s allocation of INR 2,290 Billion. This Whitepaper tries to highlight the opportunities in manufacturing of defence electronics. It is one segment where in there is huge unexplored potential for priva...

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*Region : Europe*

This research deals with RFID market in the European region and particular emphasis is done with respect to automotive, aerospace and industrial manufacturing. The research concentrates on four European regions like western Europe, Scandinavia, Benelux and Eastern Europe. The forecast is done in terms of revenues generated by RFID hardware sales, s...

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*Region : Global*

This issue of Advanced Manufacturing TOE highlights developments and opportunities for 3D printing in the aerospace industry, including UAVs, rocket engines, commercial aero engines, and satellites. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to manufacturing and industrial auto...

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*Region : North America*

The research service covers the North American RFID markets for Automotive, Aerospace & Industrial Manufacturing. The different vertical segments include automotive, aerospace and industrial markets. The total North American market within the scope of this study includes analysis of key drivers, restraints, challenges, market valuations, technology...

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**Production Efficiency and Cost Savings Plus Stringent Aviation Safety Norms Transform AM Industry by 2021**

*Region : North America*

This study analyzes revenues for the additive manufacturing (AM) market within the commercial aviation industry, focused on AM systems sales and AM-based contract manufacturing services. Key aspects of revenue opportunities for AM technology within commercial aviation are presented complemented by adoption trends. Revenue forecasts cover the 2016 t...

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[**Advances in Digital Manufacturing (TechVision)**](https://store.frost.com/advances-in-digital-manufacturing-techvision.html?)

**New Opportunities in Automotive, Aerospace, Construction, Electronics, and Healthcare**

*Region : Global*

With the advent of Industry 4.0 and smart factories, digital manufacturing technologies have been experiencing significant technological growth in the recent years. Technologies are playing a vital role in the revolutionary transformation of many key industries, such as aerospace, automotive, industrial automation, healthcare, and oil and gas secto...

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*Region : Global*

The use of advanced flight control system reduces the weight of the aircraft. The aircraft integrators manufacturing new technology aircraft are aimed at reducing the weight of the aircraft without compromising on the efficiency of the aircraft.

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USD 7,210

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*Region : Global*

This issue of Advanced Manufacturing TOE highlights advancements in extrusion-based 3D printing (including 3D printing of metals and glass), digital manufacturing and collaborative robots, and robotic harvesting of fruit. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to manufact...

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*Region : Global*

This issue of Advanced Manufacturing TOE highlights advancements in metal and plastic 3D printing, smart glasses for solving problems using an off-site specialist. The advancements include 3D printing of large metal parts, dual extrusion nozzles for 3D printing with two materials simultaneously, ultrasonic additive manufacturing of metal parts usin...

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*Region : Global*

This issue of Advanced Manufacturing TOE describes advancements and innovations in low-cost 3D printing of metals, 3D printing of large-scale (35 cubic foot) objects, 3D printing of plastic combined with fabric, construction robots for stacking irregular objects, and cloud-based autonomous robotic inspection systems. The Advanced Manufacturing Tec...

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*Region : Global*

This issue of Advanced Manufacturing TOE highlights advancements in 3D printed and 4D printed composites, metal coatings, robotic mobility, and dexterous robotic hands. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to manufacturing and industrial automation on a weekly basis. Inno...

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**Indian market is slowly shifting from being agricultural-driven to manufacturing-driven**

*Region : Global*

Owing to India’s gradual shift from a services-based to an industry-driven economy major manufacturing sectors such as steel are expected to grow at a healthy rate of 7% during 2016-20 to reach 200 Mn MT by 2020, mainly driven by automotive and auto component industries. Due to increased domestic competition and imports for conventional steel gra...

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**Lifestyle Changes, Affordable Prices, and Rising Demand Fuel Growth**

*Region : Asia Pacific*

The expanding gap between supply and demand for electronic products as well as the lack of an electronics manufacturing ecosystem to meet this growing gap has created opportunities for electronics manufacturing services (EMS) companies to grow in India. This market engineering research service analyzes the EMS market in India by outlining market dr...

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*Region : Global*

This issue of Advanced Manufacturing TOE profiles developments and advancements in 3D printing of large parts, components, or tools. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to manufacturing and industrial automation on a weekly basis. Innovations are focused toward improving ...

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*Region : Global*

This issue of Advanced Manufacturing TOE highlights key innovations in safety instrumented systems and related technologies for the oil and gas sector. The Advanced Manufacturing and Automation (AMA) Cluster covers technologies that enable clean, lean and flexible manufacturing and industrial automation. Technologies such as three-dimensional (3D)...

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*Region : Global*

This issue of Advanced Manufacturing TOE profiles advancements in 3D printing of food, such as synthetic milk, cooking of food, plug and play 3D food printers, and 3D printed food restaurants. The Advanced Manufacturing and Automation (AMA) Cluster covers technologies that enable clean, lean and flexible manufacturing and industrial automation. T...

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*Region : Global*

This issue of Advanced Manufacturing TOE profiles certain key providers, developments, opportunities, and focus areas for 3D printing in healthcare, including 3D printing of hearing aids, dental implants, orthopedic implants, surgical tools, innovative catheters. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovat...

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*Region : Global*

Metal-cutting is a crucial process in metal fabrication. Cutting metals with precision and in required dimensions has been a challenge for several centuries. The growth technology has brought many methods and processes to cut metals in different shapes, sizes, and dimensions that was unimaginable a few decades ago. Today, as metals are being used i...

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*Region : Global*

This issue of Advanced Manufacturing Technology highlights key technologies for metal hard facing. The Advanced Manufacturing Technology TechVision Opportunity Engine (TOE) covers global innovations and developments related to manufacturing and industrial automation on a weekly basis. Innovations are focused toward improving product traceability, ...

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*Region : Global*

This issue of Advanced Manufacturing Technology notes and discusses developments in heads-up displays for automotive applications. The Advanced Manufacturing Technology TechVision Opportunity Engine (TOE) covers global innovations and developments related to manufacturing and industrial automation on a weekly basis. Innovations are focused toward ...

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*Region : Global*

This issue profiles a collaborative learning algorithm for robots, microbots for carrying out a wide range of tasks, and regenerative plastic for aerospace and automotive parts and products.

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**Nine Pronged Technology Evaluation--New Era of Manufacturing and Creativity**

*Region : Global*

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**Ushering the Future of Manufacturing and Creativity**

*Region : Global*

The future of three-dimensional (3D) printing and its market implications will be determined by the breadth and depth of application potential it carries, and its ability to unleash a whole new world of application segments. Right from printing a mobile phone cover to reconstructing human organs, 3D printing has shown its technology capability in t...

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**A Regional Discussion of Manufacturing Capabilities and Regulatory Limitations**

*Region : North America*

This market insight provides a regional assessment of which countries allow UAS operations for commercial, for profit applications. It also assesses which countries have established manufacturers/sellers, growing manufacturers/sellers, or a demonstrated capability to manufacture UASs for commercial or private use.

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**Transforming the Manufacturing Paradigm in Automotive Sector**

*Region : Global*

Additive manufacturing (AM) is a rapidly growing technology that includes rapid prototyping and three-dimensional (3D) printing. These technologies are playing a crucial role in transforming industries such as automotive, aerospace, medical, fashion and food industry. Additive manufacturing is mainly used for more efficient, less time consuming and...

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**Industry Trends and Opportunities that will Shape the Electronic Manufacturing Services Market**

*Region : Global*

The study analyzes the opportunities that would open for the electronic manufacturing services (EMS) providers in the aerospace and defense industry. The trends that would shape the EMS providers market in this space have been discussed in detail, with a special focus on factors that are driving the market and an in-depth view on what is impeding m...

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*Region : Global*

This issue profiles best practices for welding of titanium alloys, a novel method to develop thermoelectric materials, and a technique to develop lightweight automotive and aerospace composites.

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**3DP, AR, VR, Advanced Robotics, and IIoT Drive Opportunities in Smart Manufacturing**

*Region : Global*

The advent of Industry 4.0 and smart factories, digital manufacturing technologies have been experiencing exponential technological growth in recent years. Disruptive Technologies are playing a vital role in the revolutionary transformation of many key industries, such as aerospace, automotive, industrial automation, healthcare, and oil and gas se...

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*Region : Global*

This issue of Advanced Manufacturing TOE profiles key 3D printing developments, such as engine part and larger structures or components, and also notes opportunities and challenges, impacting 3D printing in the aerospace industry. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to ...

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*Region : Global*

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*Region : Global*

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*Region : Global*

This issue of Advanced Manufacturing TOE highlights innovations in digital garment manufacturing, 3D printing using digital light processing and fused filament fabrication, robot programming, and fabrication of nanomaterials. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to manuf...

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*Region : Global*

This issue of Advanced Manufacturing TOE highlights advancements and innovations in composite manufacturing, including light-weight epoxy resin systems. enhanced production of forged component thermoset resins, and epoxy resin prepregs. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments relate...

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*Region : Global*

This issue of Advanced Manufacturing TOE identifies innovations for producing light-weight components, such as 3D roll forming, one-step joining processes, laser-assisted light-weight material processing, and large linear friction welders. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments r...

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**Developments in Flexible Manufacturing Systems**

*Region : Global*

The major factors driving adoption of flexible manufacturing systems are need for efficient plant floor utilization, pressures to improve quality and increase the variety of products. Adaptive robotics is emerging as a major facilitator and enabling technology for flexible manufacturing. The key challenges facing wide adoption of adaptive robots ar...

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**Collaborative Robotics for Manufacturing–Technology Benchmarking and Stakeholder Analysis**

Collaborative robots are robots which can work safely besides humans. With the growing lack of skilled labor in developed countries and the increasing median age of the population, collaborative robots will be beneficial for small and medium enterprises (SMEs) across countries, such as China, India and Taiwan, which are heavily dependent on manufac...

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**Nine Pronged Technology Evaluation--Next Paradigm in Manufacturing**

*Region : Global*

The future of four-dimensional (4D) printing and its market implications will be determined by the breadth and depth of its application potential and its ability to unleash a whole new world of application segments and opportunities. From printing human organs to parts that are used in aerospace and automotive sectors, 4D printing promises to hold...

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**Paving way for the future of eco-friendly aircraft**

*Region : Global*

The future of the aerospace sector in terms of eco-friendly aircraft will depend on the developments in the manufacturing sector. Some of the manufacturing technologies such as three-dimensional (3D) printing, nanomanufacturing, composite manufacturing, and multimaterial manufacturing technologies will have a crucial role in the transformation of ...

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**Industry revenue to double by 2015 backed by domestic aircraft market growth and defense offsets**

*Region : South Asia, Middle East & North Africa*

This research service analyzes the growth of Indian aircraft component manufacturing and services industry while also discussing the existing and possible opportunity areas. The study includes a brief overview evolution of manufacturing value chain and emergence of India in global aircraft industry. Then study presents emerging trends, PESTLE facto...

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*Region : Europe*

This report is focussed on space satellite manufacturing segment, which is the driving element of the space industry. This research presents the market trends shaping the satellite manufacturing industry moving forward into the future. An important part of this research is in defining the critical success factors in reference to end-user expectatio...

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*Region : Global*

This issue of Advanced Manufacturing Technology highlights advancements in social robots with enhanced robot-human interaction capabilities. Such robots can provide companionship for humans or serve as therapeutic devices. The Advanced Manufacturing Technology TechVision Opportunity Engine (TOE) covers global innovations and developments related t...

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*Region : Global*

This issue of Advanced Manufacturing Alert identify key developments in robot exoskeletons for industrial and manufacturing applications, such as material handling, enhanced human movement, and improved ability to lift heavier items. The Advanced Manufacturing Alert covers global innovations and developments related to manufacturing and industrial...

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*Region : Global*

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*Region : Global*

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*Region : Global*

This issue of the Advanced Manufacturing Alert profiles developments and opportunities for 3D printing for sports protective gear, shoes, and equipment. The Advanced Manufacturing Alert covers global innovations and developments related to manufacturing and industrial automation on a weekly basis. Innovations are focused toward improving product t...

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*Region : Global*

This issue of Advanced Manufacturing Alert contains information about key innovations and opportunities in 3D printed medical organs and implants. The Advanced Manufacturing Alert covers global innovations and developments related to manufacturing and industrial automation on a weekly basis. Innovations are focused toward improving product traceab...

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*Region : Global*

This issue of Advanced Manufacturing Alert highlights innovations in 3D printing of drones and opportunities and applications for 3D printed drones. The Advanced Manufacturing Alert covers global innovations and developments related to manufacturing and industrial automation on a weekly basis. Innovations are focused toward improving product trace...

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*Region : Global*

This issue of Advanced Manufacturing TOE clarifies developments, opportunities and applications for welding technologies. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to manufacturing and industrial automation on a weekly basis. Innovations are focused toward improving product tr...

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*Region : Global*

This issue of Advanced Manufacturing TOE pinpoints advancements in consumer robotics, including home and pool cleaning robots, robots for physical rehabilitation, and personal robotic assistants. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to manufacturing and industrial automa...

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*Region : Global*

This issue of Advanced Manufacturing TOE identifies key advancements in 3D printing of metals, including high-strength stainless steel powder, a technique for 3D printing metal components at the nanoscale level, 3D printing of micro metal structures in free space, and enhanced refractory metals for 3D printing. The Advanced Manufacturing TechVisio...

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*Region : Global*

This issue of Advanced Manufacturing TOE notes advancements in SCARA robots, and key markets drivers and R&D areas for such robots. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to manufacturing and industrial automation on a weekly basis. Innovations are focused toward improving ...

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*Region : Global*

This issue of Advanced Manufacturing TOE provides intriguing information about advancements in the use of 3D printing to create prosthetics for animals. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to manufacturing and industrial automation on a weekly basis. Innovations are focu...

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*Region : Global*

This issue of Advanced Manufacturing TOE highlights developments in 4D printing–an intriguing technology that combines 3D printing with materials that respond, and change their structure, in the presence of key environmental stimuli. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments relat...

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*Region : Global*

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*Region : Global*

This Advanced Manufacturing TOE profiles innovations in 3D printing materials, including stem-cell bio-ink, electroactive polymers, orange peel bioplastics, and environmentally-friendly filaments. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to manufacturing and industrial automa...

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*Region : Global*

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*Region : Global*

This issue of Advanced Manufacturing TOE profiles innovations in 3D printing technology that are directed at helping visually impaired people. Innovations profiled include the development of a tactile teaching aid by Korea Institute of Science and Technology, a 3D printed map by Rutgers School of Engineering, a 3D printed display for the visually i...

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*Region : Global*

This issue of Advanced Manufacturing TOE highlights key innovations in the Industrial Internet of Things (IIoT), and notes key opportunities, trends, and requirements for IIoT technologies, such as integrated platforms. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to manufacturi...

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*Region : Global*

This issue of Advanced Manufacturing TOE profiles key developments and initiatives in 3D printing for the space industry, such as contour crafting, printing tools or objects, bioprinting, and printing food. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to manufacturing and indust...

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*Region : Global*

This issue of Advanced Manufacturing TOE highlights key developments and opportunities in enhanced 3D printing materials, ushc as graphene, polymers, and ceramics. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to manufacturing and industrial automation on a weekly basis. Innovat...

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*Region : Global*

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*Region : Global*

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*Region : Global*

This issue of Advanced Manufacturing TOE profiles key developments and opportunities in robots for military and defense applications, including remotely operated weapons systems, multi-task battlefield robots, armed tactical robots. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to...

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*Region : Global*

This issue of Advanced Manufacturing TOE highlights innovations and opportunities in 3D printing of food, including chocolate or other sweets, healthy ingredients, and ice cream. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to manufacturing and industrial automation on a weekly b...

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*Region : Global*

This issue of Advanced Manufacturing TOE profiles innovations, applications, and opportunities in bionic and exoskeleton technologies, such as bionic knee braces, exoskeletons for rehabilitation, and bionic suits for high-performance marine applications. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and d...

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*Region : Global*

This issue of Advanced Manufacturing TOE highlights advancements in 3D printing design and modeling software, including enhanced editing software, slicing software, and 3D printing management software. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to manufacturing and industrial a...

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*Region : Global*

This issue of Advanced Manufacturing TOE profiles innovations and opportunities for marine robots, including enhanced remotely operated vehicles, underwater robots with flexible structures for innovative maneuvering and propulsion, underwater robots for identifying permafrost degradation and greenhouse gas emissions, and underwater humanoid robots....

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*Region : Global*

This issue of Advanced Manufacturing TOE identifies advancements in 3D scanners for 3D printing, including 3D depth sensing scanners, handheld 3D scanners, laser- and camera-based 3D scanners, and rotating platform 3D scanners. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to manu...

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*Region : Global*

This issue of Advanced Manufacturing TOE identifies key developments and opportunities in wearable technologies for industrial environments applications, such as low-light environments with vehicles, smart glasses, advanced wearable headgear, and smart lens technology. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global i...

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*Region : Global*

This issue of Advanced Manufacturing TOE presents developments, innovations and opportunities for material handling and logistics robots, including large-payload robots, flexible robotic platforms, collaborative and autonomous robots, and mobile pick-and-place robots. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global inn...

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*Region : Global*

This issue of Advanced Manufacturing TOE focuses on developments and innovations in manufacturing composites, including single-processing solutions, combination 3D printing and robotics technologies, techniques for producing continuous carbon fiber, and use of paper 3D printing technology to produce carbon fiber reinforced parts. The Advanced Manu...

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*Region : Global*

This issue of Advanced Manufacturing TOE profiles innovations and opportunities in stronger 3D printing materials using carbon nanotube composite; soft, vine-like robots capable of growing; joining of challenging metals using wobble head technology and fiber lasers; digital packaging finishing technology; and cryogenic machining. The Advanced Man...

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**3DP Drives High Growth Opportunities in Food, Consumer Electronics, Entertainment, Jewelry, Apparel Industries**

*Region : Global*

With technological advancements transforming the consumer goods market, additive manufacturing is set to create high impact in the near future. Additive manufacturing has garnered increased interest from industries such as consumer electronics, automotive, aerospace, and manufacturing in the past few years for prototyping and production application...

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*Region : Global*

This issue of Advanced Manufacturing TOE highlights advancements in additive manufacturing( including metal 3D printing, smaller 3D printers), robotic exoskeletons, and wearable goggles for industrial applications . The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to manufacturing an...

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*Region : Global*

This issue of Advanced Manufacturing TOE highlights advancements in manufacturing of graphene, 3D printing in water, 3D printing of nanosensors, advances in consumer-grade 3D printers, and friction stir welding. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to manufacturing and in...

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*Region : Global*

Advances in nanomanufacturing facilitate production of materials and products in commercial scale in an economically viable manner and also address the challenges faced in health and safety issues. Furthermore, the trend focuses toward addressing specific requirements of various industries reflecting a more customized approach. Key industries imp...

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**Technologies that Will Change the Aerospace and Defense Landscape**

*Region : Global*

The aerospace and defense industries have witnessed tremendous change in the past few years. Both sectors have seen a rising use of wearables. In the defense sector wearables are increasingly being used in the form of body-worn sensors for training and combat. Wearables are becoming ubiquitous in aerospace as well in the form of head-mounted displa...

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**Economic Policy, Recovery and Growth Influencing the South African Aerospace and Defense Industry**

*Region : Africa*

South Africa is a democratic republic with a stable political system. The economic environment is forecast to remain stable, with policy focus on employment creation through growth and stability. The country has a long-established aerospace and defense industry with large international contracts driving local manufacturing. The aerospace industry h...

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[**Global Aerospace Logistics IIoT, 2016**](https://store.frost.com/global-aerospace-logistics-iiot-2016.html?)

**SaaS Providers Will Change the Nature of Aerospace Logistics, Using IoT To Significantly Reduce Costs and Increase Delivery Time**

*Region : Global*

The aerospace logistics market, like many others, is in a state of change. The introduction of enhanced Internet protocol-based software and equipment is driving the market in new directions. This insight covers the market from 2016 to 2026. Logistics to support aerospace activities such as manufacturing; maintenance, repair, and overhaul (MRO); a...

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*Region : North America*

This research service covers the World electronic manufacturing services provider markets in the aerospace and defense industry. Market dynamics delving into market challenges, drivers and restraints have also been investigated. Revenue forecasts and penetration rates for key medical devices are uncovered. This research also covers the competitive ...

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**Overcoming Challenges for Wider Adoption**

*Region : Europe*

After highlighting additive manufacturing (AM) as one of the most important technological trends in aerospace and defence, Frost and Sullivan attended the Additive Manufacturing for Defence and Aerospace summit in London in February 2015. The first conclusion arrived at based on the summit is additive manufacturing is drawing a lot of attention. In...

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**Engineering Services Create Tremendous Opportunity in the Indian Aerospace Industry**

*Region : South Asia, Middle East & North Africa*

This research service analyses the opportunities and avenues for future growth of the aerospace manufacturing, engineering services, and maintenance, repair and overhaul segments in India. A ten-year forecast is provided, up to the year 2022, keeping in mind the drivers, restraints, and challenges that the industry faces.

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*Region : Global*

The aerospace industry is focusing on reducing the weight of aircraft in order to attain better fuel efficiency and performance. This is creating a need for materials with better mechanical, chemical, and thermal properties that can replace heavy metals. With lightweight and durability of components of prime importance, lightweight composites (f...

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*Region : Asia Pacific*

China is the worlds fastest growing aviation market and the Chinese government is promulgating investor friendly policies to sustain the aviation industry growth. Air craft manufacturing, air port development are some of the areas that exected to provide opportunities due to policy changes. This research service outlines Chinas political structur...

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**A Future Aerospace Region Giant on the Rise**

*Region : Asia Pacific*

During the last decade, APAC has been the most dynamic region with regard to air traffic. As a result, the region has witnessed the highest aircraft demand globally and a strong development of new infrastructure to cope with increasing traffic. The countries in this region realise that investment in this industrial sector is profitable. Thus, they ...

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**Aircraft Power Production Series**

*Region : Global*

The commercial aircraft Fuel Systems market consists of the pumps that produce the flow, various storage and safety systems, and the controls that provide this power to the engines. As such, it is part of an integrated system. The primary focus of this research was the provision of new components into new aircraft. This is a market strongly domina...

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**Expansion in China's Commercial Aerospace Industry is Creating a Wealth of Opportunities**

*Region : Asia Pacific*

This research covers Chinese Electronic Manufacturing Services (EMS) provider market in the commercial aerospace industry. It provides a comprehensive analysis of the total market. The study period is 2007-2017, and base year is 2010. Forecasts are provided for 2011-2017, and compound annual growth rate (CAGR) is calculated for 2010-2017. This anal...

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*Region : North America*

This research service covers the electronics manufacturing service (EMS) providers opportunities in the North American aerospace and defense (A&D) industry. The research also discusses various trends within the EMS penetration in North American market as compared to the world A&D industry. These trends have been analysed in terms drivers, restraint...

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*Region : Global*

This Advanced Manufacturing TOE highlights innovations and opportunities in 3D printing for military/aerospace applications, including 3D laser metal printing of weapons, 3D printing of electronic components, 3D printing of food, 3D bioprinting of functional skin. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovat...

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*Region : Global*

This Aerospace and Defense TOE profiles innovations, advancements, and opportunities in unmanned aerial vehicles (UAVs), such as data security, wide-area cameras, air-to-ground in-flight connectivity, munitions, bioinspired aerial robots, solar-powered UAVs, aircraft satellite communications, and encryption of classified data. Aerospace and Defens...

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*Region : Global*

This Aerospace and Defense TOE highlights advancements and innovations in aircraft radar systems, including mobile systems, perimeter defense radar systems, advanced airborne radar, and radar to pinpoint distant nautical threats. Aerospace and Defense TechVision Opportunity Engine (TOE) delves into the technologies and applications that shape bo...

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*Region : Global*

This Aerospace and Defense TOE profiles key innovations and developments in sonar technology for defense purposes, such as detecting enemy submarines and torpedoes. The advancements include portable diver detection sonar, towed array depth sonar for anti-submarine warfare, sonar systems that are not impaired by noise, acoustic processing systems, ...

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*Region : Global*

This Aerospace and Defense TOE profiles developments and advancements in glassy carbon aircraft materials; flexible, shape-changing wing flaps; radar-based missile defense simulation systems; jet fighter training aircraft; helicopters design and displays; and precise orbiting instruments. Aerospace and Defense TechVision Opportunity Engine (TOE) d...

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**Equipment and Services Opportunities**

*Region : North America*

This research service is an overview of procurement spending and contract activity for global defense markets. Included are research and development, procurement, operations and maintenance, and services representative programs and contracts for 7 regions, 20 countries, and 12 technology segments. The global defense industry is comprised of the na...

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*Region : Global*

The carbon fibers market is expected to grow significantly in the next 5 to 7 years primarily driven by the automotive sector due to regulatory pressure to improve fuel efficiency and reduce the weight of the vehicles. Presently, they are primarily used in the aerospace industry and in high-end cars manufactured by companies such as BMW and Lambo...

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**Building and Home Automation Sectors will Drive Growth Opportunities for Thermal Harvesters**

*Region : Global*

Increased population and pollution are largely contributing to energy crisis. In manufacturing and industrial power plants, a high amount of energy is wasted in the form of heat. Though some countries have restructured their electricity infrastructure with highly expensive processes, the electricity crisis still prevails. This energy and electricit...

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**Aircraft Power Production Series**

*Region : North America*

The commercial aircraft hydraulic power market consists of the pumps that produce the power, various storage and safety systems, and the controls that provide this power to the operating systems. As such, it is part of an integrated system of systems. The primary focus of this research was the provision of new components into new aircraft. This ...

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*Region : Global*

Organic light-emitting diode (OLED) is an emerging technology in the field of lighting. The future of OLED and its market implications will be determined by the breadth and depth of its application potential and its ability to open up a whole new world of opportunities. OLED lighting applications are poised to influence automotive, aerospace, high-...

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**Potential Challengers and Investment Opportunities**

*Region : North America*

Indigenous unmanned aerial system (UAS) development and manufacturing capabilities are advancing rapidly worldwide. North America and Europe lead the world in technological capabilities, along with Israel. While those regions will continue to build on the successes of advanced UAS programs, countries in Asia, the Middle East, and South America will...

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[**Top 50 Emerging Technologies: Growth Opportunities of Strategic Imperative**](https://store.frost.com/top-50-emerging-technologies-growth-opportunities-of-strategic-imperative-19853.html?)

**Multi-billion dollar technologies ready to propel industries and transform our world**

*Region : Global*

Research Overview The Top 50 Emerging Technologies research is a comprehensive analysis of the most promising and disruptive technologies poised to impact our world in the next few years. It highlights and offers strategic guidance and actionable ideas on the hottest 50 technologies that pack maximum potential to fuel global innovation; spawn in...

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[**Global Aerospace Sealants Market, Forecast to 2023**](https://store.frost.com/global-aerospace-sealants-market-forecast-to-2023.html?)

**High Demand for Aircraft Fleet Expansion in Asia-Pacific and the Middle East is Expected to Spur Demand**

*Region : Global*

Aerospace is one of the key industries of leading economies that supplies to market such as commercial aviation, defense aviation, and general aviation. Aircrafts and related components and products that are in operation or are being manufactured require a variety of highly specific and durable sealants for various applications on parts such as fue...

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[[US DoD Foreign Military Sales Market, Forecast to 2021](https://store.frost.com/us-dod-foreign-military-sales-market-forecast-to-2021.html?)](https://store.frost.com/us-dod-foreign-military-sales-market-forecast-to-2021.html?" \o "US DoD Foreign Military Sales Market, Forecast to 2021)

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[**US DoD Foreign Military Sales Market, Forecast to 2021**](https://store.frost.com/us-dod-foreign-military-sales-market-forecast-to-2021.html?)

**Domestic Defense Firms Must Become More Innovative and Cost Efficient to Succeed in the Increasingly Competitive Race to Sell International Arms**

*Region : North America*

An overall increase in global defense spending is expected, after several years of relatively flat growth, which will cause the US Department of Defense (DoD) market for foreign military sales (FMS) to grow at an estimated 3.4% over the 2015 to 2021 study period. However, overall sales of US military equipment will grow at an even greater rate beca...

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[[Global Air-to-Ground Missile Market, Forecast to 2021](https://store.frost.com/global-air-to-ground-missile-market-forecast-to-2021.html?)](https://store.frost.com/global-air-to-ground-missile-market-forecast-to-2021.html?" \o "Global Air-to-Ground Missile Market, Forecast to 2021)

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[**Global Air-to-Ground Missile Market, Forecast to 2021**](https://store.frost.com/global-air-to-ground-missile-market-forecast-to-2021.html?)

**Technology Advancements Drive Demand**

*Region : North America*

For the last several years, conflicts across the Middle East and Afghanistan have been a costly undertaking for the United States and its allies. During 2015, the United States alone dropped over 20,000 bombs and missiles on both Iraq and Syria. The number of bombs and missiles applied by NATO and Gulf Cooperation Council allies cannot be determine...

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[**Plastics for the Automotive, Aerospace, Building and Construction, and Packaging Industries**](https://store.frost.com/plastics-for-the-automotive-aerospace-building-and-construction-and-packaging-industries.html?)

*Region : Global*

This edition of the Plastics Advisor TOE profiles innovations in plastics for the automotive, aerospace, building and construction, and packaging industries. The innovations include a dual container packaging solution, an inverted stand-up pouch that can be retrofitted in existing manufacturing line, bricks made from recycled plastics for construct...

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[**Research and Development Initiatives in WiFi Devices, Aerospace Composites, Renewable Energy, and Agro Waste Management - Inside R&D TOE**](https://store.frost.com/research-and-development-initiatives-in-wifi-devices-aerospace-composites-renewable-energy-and-agro-waste-management-inside-r-d-toe.html?)

*Region : Global*

This edition of Inside R&D TOE profiles innovations in WiFi devices and technologies, composites for aerospace, topics in renewable energy, agricultural waste management, and synthetic alcohol. Inside R&D TechVision Opportunity Engine (TOE) covers global innovations that are in research and development in virtually all technology areas. We provide...

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*Region : Asia Pacific*

This research service provides strategic industry analysis of the dynamics of commercial aviation suppliers in China. The analyses include identification of industry challenges, market drivers and restraints and key industrial influences that are affecting the commercial aviation market in China. Market coverage includes aviation manufacturing, avi...

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[**Global Space Industry Stakeholder Mapping**](https://store.frost.com/global-space-industry-stakeholder-mapping.html?)

*Region : Global*

A global perspective of the Space Industry, covering both the core upstream and downstream segments of launch services, satellite manufacturing, ground equipment & operations, support services and satellite services. This research also includes historical trends, current drivers and restraints, market challenges, end-user assessments, overview of ...

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[[Internet of Things (IoT) - Disruptive Opportunities in Key Sectors (Technical Insights)](https://store.frost.com/internet-of-things-iot-disruptive-opportunities-in-key-sectors-technical-insights.html?)](https://store.frost.com/internet-of-things-iot-disruptive-opportunities-in-key-sectors-technical-insights.html?" \o "Internet of Things (IoT) - Disruptive Opportunities in Key Sectors (Technical Insights))

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Sep 2014](https://store.frost.com/internet-of-things-iot-disruptive-opportunities-in-key-sectors-technical-insights.html?" \o "Internet of Things (IoT) - Disruptive Opportunities in Key Sectors (Technical Insights))*

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**Connecting Anyone, Anywhere, Anytime Intelligently**

*Region : Global*

The Internet of things (IoT) is a concept that has emerged from a vision of an always connected world. Seamless connectivity between devices anywhere, anytime, in any condition is the goal behind the concept of IoT. This research service explores the impact of Internet of Things in key sectors such as Energy, Healthcare, Transportation, Manufacturi...

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[**Indian Defense Market, Forecast to 2026**](https://store.frost.com/indian-defense-market-forecast-to-2026.html?)

**New Policy Dynamics, Market Requirements, and Programs Present Myriad Opportunities for Companies**

*Region : Global*

According to SIPRI, India was the largest arms importer in the world during 2011–2015. The Indian government has revised the procurement policy after seeking responses from industry stakeholders. Frost & Sullivan has analyzed the competitive landscape of defense in India, which consists of public sector undertakings (PSUs), foreign defense compan...

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[[Global Commercial Engine MRO Market Assessment (CF34, CFM56 & V2500)](https://store.frost.com/global-commercial-engine-mro-market-assessment-cf34-cfm56-v2500.html?)](https://store.frost.com/global-commercial-engine-mro-market-assessment-cf34-cfm56-v2500.html?" \o "Global Commercial Engine MRO Market Assessment (CF34, CFM56 & V2500))

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[**Global Commercial Engine MRO Market Assessment (CF34, CFM56 & V2500)**](https://store.frost.com/global-commercial-engine-mro-market-assessment-cf34-cfm56-v2500.html?)

*Region : Global*

Engine manufacturers and MRO service providers are increasingly focused on engine efficiency to optimize fuel consumption and match environmental regulations on emission and noise levels.

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[[Global Military Unmanned Aerial Systems (UAS) Suppliers, 2017](https://store.frost.com/global-military-unmanned-aerial-systems-uas-suppliers-2017.html?)](https://store.frost.com/global-military-unmanned-aerial-systems-uas-suppliers-2017.html?" \o "Global Military Unmanned Aerial Systems (UAS) Suppliers, 2017)

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[**Global Military Unmanned Aerial Systems (UAS) Suppliers, 2017**](https://store.frost.com/global-military-unmanned-aerial-systems-uas-suppliers-2017.html?)

**A Regional List of Non-government Military UAS Manufacturers Reveals Global Trends and Trade Relationships**

*Region : North America*

The competition to supply militaries with various types of Unmanned Aerial Systems (UAS) is increasing. A global rise in defense spending to attain UAS capabilities is leading to companies continuously developing and/or upgrading platforms and sensors to meet rapidly changing and expanding military applications. In response, military UAS suppliers ...

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[**Innovations in Virtual Reality**](https://store.frost.com/innovations-in-virtual-reality.html?)

*Region : Global*

This Aerospace and Defense TOE highlights and clarifies key innovations in virtual reality for aerospace and defense applications, such as combat vehicles, aircraft or ship design, flight crew training, firearms or warfighter training. Aerospace and Defense TechVision Opportunity Engine (TOE) delves into the technologies and applications that shap...

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**Advancements in Strength, Electrical and Thermal Conductivity of Carbon Nanotube Composites**

*Region : Global*

This Aerospace and Defense TOE highlights innovations in composites for aviation, including composite propellers, shape memory alloy composites, ceramic matrix composites, carbon nanotube composites, a carbon fiber bonded composite repair technique, and graphene nanocomposites. Aerospace and Defense TechVision Opportunity Engine (TOE) delves into ...

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[**Polymers in 3D Printing - Plastics Advisor TOE**](https://store.frost.com/polymers-in-3d-printing-plastics-advisor-toe.html?)

Plastics that are used for 3D printing are mostly of synthetic origin that includes nylon (polyamides) and acrylonitrile butadiene styrene (ABS). Apart from plastics, metals and ceramics are also used. The key application segments are healthcare, electronics, automotive, aerospace and defense. Out of these, healthcare and electronics segments have ...

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*Region : Global*

This issue of Advanced Manufacturing TOE highlights innovations in high throughput 3D printing of metal, automated post-curing for stereolithography 3D printing, augmented reality for manufacturing facilities, improved production for fused deposition modeling equipment, and industrial robots with object recognition and environmental awareness. Th...

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*Region : Global*

This issue of Advanced Manufacturing TOE highlights key innovations and developments in 3D printing of metals, non-metals, and body armor. It also depicts developments in collaborative robots for logistics and material transport, and combined laser and waterjet technology. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers globa...

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*Region : Global*

This issue of Advanced Manufacturing TOE profiles developments in metal 3D printing, collaborative robotics, material handling, and 3D printing automation. Innovations covered include intelligent end effectors for collaborative robots, achieving high-quality finishing in metal additive manufacturing, wide-area laser beam technique for rapid powder...

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*Region : Global*

This issue of Advanced Manufacturing TOE describes advancements and innovations in low-cost 3D printing of metals, 3D printing of large-scale (35 cubic foot) objects, 3D printing of plastic combined with fabric, construction robots for stacking irregular objects, and cloud-based autonomous robotic inspection systems. The Advanced Manufacturing Tec...

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*Region : Global*

This issue of Advanced Manufacturing TOE highlights innovations in 3D printing of glass, metals, and buildings; painting and cleaning robots for commercial applications; and voice recognition technology for handheld or wearable devices. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments relate...

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*Region : Global*

This issue of Advanced Manufacturing TOE profiles innovations in 3D printing, robotics, and material handling, including combined robotic and 3D printing solutions, modular material handling technology, monitoring of automation devices, inkjet-based 3D printing for improved production of multi-colored products and greater speed. The Advanced Man...

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*Region : Global*

This issue of Advanced Manufacturing TOE identifies key innovations and advancements in 3D printing of high-strength composites or other materials that are strong in the Z axis and in the X and Y axes, 3D printing of large-scale parts/structures, real-time asset tracking and location solutions, and bio-inspired anti-vibration technology. The Advan...

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[**Innovations in Agriculture Robots**](https://store.frost.com/innovations-in-agriculture-robots.html?)

*Region : Global*

This issue of Advanced Manufacturing TOE highlights advancements in robots for agriculture, such as mobile material handling robots, fruit harvesting robots, plant breeding robots, and fertilizer robots. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to manufacturing and industrial...

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[**Advances in Microbots**](https://store.frost.com/advances-in-microbots.html?)

*Region : Global*

This issue of Advanced Manufacturing TOE presents innovations in microrobots (microbots), including bioinspired microbots controlled via electromagentic fields, microbots controlled by blue light, microbots for pollution control, and ciliated microbots for drug or chemical delivery. The Advanced Manufacturing TechVision Opportunity Engine (TOE) co...

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[**3D Printing in the Motorcyle Industry**](https://store.frost.com/3d-printing-in-the-motorcyle-industry.html?)

*Region : Global*

This Advanced Manufacturing TOE highlights developments and innovations in three-dimensional (3D) printing for motorcycles, including the chassis, windshield, lights, mirrors, and tank casings. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to manufacturing and industrial automatio...

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[**Improved Product and Material Inspection and Testing Technologies**](https://store.frost.com/improved-product-and-material-inspection-and-testing-technologies.html?)

*Region : Global*

This Advanced Manufacturing TOE highlights developments in laser scanners for quality inspection and 3D digital representation, including portable 3D laser scanners, arms with integrated encoders and laser scanners. structured light 3D scanners, fringe projection scanners. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers globa...

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[**3D Printing of Low-cost Prosthetics**](https://store.frost.com/3d-printing-of-low-cost-prosthetics.html?)

*Region : Global*

This Advanced Manufacturing TOE profiles innovations in 3D printed orthopedic prosthetics, including prosthetic hands. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to manufacturing and industrial automation on a weekly basis. Innovations are focused toward improving product trac...

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*Region : Global*

This Advanced Manufacturing TOE highlights advancements and innovations in fiber laser machining technology, such as fiber punch laser machines, fiber laser for additive and subtractive machining, high power fiber lasers, and laser cutting combined with CNC (computer numerical control) machining. The Advanced Manufacturing TechVision Opportunity E...

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*Region : Global*

This Advanced Manufacturing TOE profiles innovations in highlights advancements in waterjet cutting machines, including desktops, more affordable systems, machines for heavy industry, and machines for very precise parts. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and developments related to manufactur...

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*Region : Global*

This issue of Advanced Manufacturing TOE profiles self-driving goods delivery robots; 3D printing for large-scale construction, including skyscrapers; cloud-connected humanoid robots with improved management programming systems; underwater drones for fishing; and improved robot grasping of varied objects by leveraging artificial intelligence; and s...

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*Region : Global*

This issue of Advanced Manufacturing TOE identifies developments and opportunities in robotic arms for sewing machines, autonomous spray painting robots, 1D printing of on-demand robots, desktop 3D printing of larger objects, and smart home personal robots. The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations a...

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*Region : Global*

This issue of Advanced Manufacturing TOE profiles innovations and opportunities in stronger 3D printing materials using carbon nanotube composite; soft, vine-like robots capable of growing; joining of challenging metals using wobble head technology and fiber lasers; digital packaging finishing technology; and cryogenic machining. The Advanced Man...

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*Region : Global*

This issue of Advanced Manufacturing TOE covers recent developments in three-dimensional (3D) printing for medial applications. Innovations profiled include 3D printing through two-photon polymerization by Nanoscribe GmbH, rapid 3D prototyping in the microfluidic industry by The Dolomite Centre Ltd., 3D bioprinting in tissue engineering by the Univ...

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*Region : Global*

This issue of Advanced Manufacturing TOE highlights advancements in 3D printing (including 3D printing of metals and ceramics, multi-function 3D printers, 3D printing with essentially no post-processing) and construction robots (brick laying robots). The Advanced Manufacturing TechVision Opportunity Engine (TOE) covers global innovations and devel...

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*Region : Global*

This issue of Advanced Manufacturing TOE pinpoints advancements in vibration welding, metal joining without heat at room temperature, large-scale 3D printing, improvements over conventional fused filament fabrication 3D printing, and industrial wearables that can reduce fatigue of workers. The Advanced Manufacturing TechVision Opportunity Engine (...

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*Region : Global*

This issue of Advanced Manufacturing TOE highlights advancements in personal, home robots for enhanced human-robot interaction, robots for minimal access surgery, bridge inspection robots, robots for autonomous food delivery. Self-healing robots made of soft, flexible elastomeric polymers are also profiled. The Advanced Manufacturing TechVision Op...

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Dec 2014](https://store.frost.com/impact-assessment-of-3d-printing-materials-in-key-applications-technical-insights.html?" \o "/c/h/chemicals-and-materials.png)*

[**Impact Assessment of 3D Printing Materials in Key Applications (Technical Insights)**](https://store.frost.com/impact-assessment-of-3d-printing-materials-in-key-applications-technical-insights.html?)

**Wide Choice Of Materials Facilitate Intricate Design And Customization Using 3D Printing Across Industries**

*Region : Global*

Product customization and frugal solutions are driving the 3D printing technology. Experimentation with unorthodox materials can revolutionize the adoption of 3D printing, even in healthcare or automotive sectors. It is also seen that individual creativity is upsurging in consumer industry like food, jewelry, apparels and toys due to 3D printing. T...

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*Region : Global*

Three-dimensional (3D) printing, also known as additive manufacturing, is a layering process by which solid, 3D objects are created. The technology is gaining widespread interest in the aerospace, automotive, electrical, medical, and dental industries. This creates a need for developing a range of materials for use in the 3D printing process. Some ...

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*Region : Global*

This Industrial Bioprocessing TOE features innovations, important trends, and innovations in the chocolate industry. This TOE covers innovations in chocolate quality control; manufacturing of low fat chocolate and unique, gourmet three-dimensional (3D) printed chocolate; and use of chocolate as a nutri-cosmetic product. The Industrial Bioprocessin...

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[[Consumer Robots as Domestic Assistants - Future Tech TOE](https://store.frost.com/consumer-robots-as-domestic-assistants-future-tech-toe.html?)](https://store.frost.com/consumer-robots-as-domestic-assistants-future-tech-toe.html?" \o "Consumer Robots as Domestic Assistants - Future Tech TOE)

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[**Consumer Robots as Domestic Assistants - Future Tech TOE**](https://store.frost.com/consumer-robots-as-domestic-assistants-future-tech-toe.html?)

*Region : Global*

This Future Technology TOE profiles innovations in and applications for consumer electronics, including cleaning robots, robotic lawn mowers, clothes folding robots. The Future Tech TechVision Opportunity Engine (TOE) captures emerging innovations in research and development, or profile existing technologies which have seen a resurgence in terms...

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[[Plastics in Packaging - Plastics Advisor TOE](https://store.frost.com/plastics-in-packaging-plastics-advisor-toe.html?)](https://store.frost.com/plastics-in-packaging-plastics-advisor-toe.html?" \o "Plastics in Packaging - Plastics Advisor TOE)

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[**Plastics in Packaging - Plastics Advisor TOE**](https://store.frost.com/plastics-in-packaging-plastics-advisor-toe.html?)

*Region : Global*

Polymer-based packaging is one of the highest growing segments in the overall packaging industry from a materials perspective. The plastics/polymers that are used are mainly low density polyethylene, linear low density polyethylene, high density polyethylene, polyvinyl chloride, and polypropylene; with bio-based plastics are gaining momentum. While...

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*Region : Global*

Need for viable material alternatives for conventional metals and ongoing lightweighting initiatives are leading to increasing adoption of plastics and composites in the automotive industry. While use of plastics in automotive interiors is established, research activities are also focused on the use of the plastic and composite resins for engine a...

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[**Biomimicry Applications in the Automotive Industry**](https://store.frost.com/biomimicry-applications-in-the-automotive-industry.html?)

*Region : Global*

This Industrial Bioprocessing TOE features trends and innovations in application of biomimicry for the automotive industry. In the recent decades biomimicry is increasingly being recognized as a concept with potential to solve age-old issues. The TOE edition focusses on various technology innovations based on biomimicry for the automobile industry ...

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[**Global Temperature Sensors and Transmitters Market**](https://store.frost.com/global-temperature-sensors-and-transmitters-market.html?)

**Non-contact Temperature Sensors are Threatening Established Technologies in Process Applications**

*Region : Global*

Global temperature sensors and transmitters market is a mature market. Temperature is the most monitored parameter in any industry. Both contact- and non-contact-technology-based temperature sensors are deployed in industrial applications, ranging from basic temperature sensing to critical applications in aerospace, metal manufacturing and nuclear ...

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*Region : Global*

The research service investigates the market demand for machine vision and x-ray inspection equipment in both established and developing markets, and it describes the drivers, restraints, and challenges that will impact future market conditions. The various market trends and dynamics of such technology within the electronics manufacturing, medical ...

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**DAQ Companies Need to Rethink Their Focus on India**

*Region : South Asia, Middle East & North Africa*

With India becoming a global manufacturing hub for aerospace and defence, more participants are looking to expand their presence in the country. The resulting competition is expected to drive the growth of the DAQ market in the long term. This research service discusses the major companies operating in the industry, key trends, and revenue forecast...

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[**World Calibration Management Software Markets**](https://store.frost.com/world-calibration-management-software-markets.html?)

*Region : Global*

This study provides an in-depth forecast analyses for calibration management software solution for each geographic region and analyses of the drivers, restraints and challenges faced by the industry. End-user analyses for different sectors like Automotive ,Life Sciences ,Oil and Gas ,Aerospace and Defence ,Industrial and Electronic Manufacturin...

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[**Electronic Test and Measurement (T&M) Market in Research and Development, Forecast to 2021**](https://store.frost.com/electronic-test-and-measurement-t-m-market-in-research-and-development-forecast-to-2021.html?)

**Innovative Technologies Initiate Frequency and Bandwidth Shifts, Compelling Strategic Rethink**

*Region : Global*

The electronic test and measurement market will undergo significant transformation over the next 5 to 7 years with the advent of new technologies changing customer requirements in frequency and bandwidth among other equipment specifications. Worth $1.99 Billion in 2015, revenues are expected to reach $2.36 Billion by 2021 at a CAGR of 2.8% although...

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[[Future of MES—Impact of Industrial Internet of Things (IIoT) on MES Platforms](https://store.frost.com/future-of-mes-impact-of-industrial-internet-of-things-iiot-on-mes-platforms.html?)](https://store.frost.com/future-of-mes-impact-of-industrial-internet-of-things-iiot-on-mes-platforms.html?" \o "Future of MES—Impact of Industrial Internet of Things (IIoT) on MES Platforms)

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Jul 2016](https://store.frost.com/future-of-mes-impact-of-industrial-internet-of-things-iiot-on-mes-platforms.html?" \o "Future of MES—Impact of Industrial Internet of Things (IIoT) on MES Platforms)*

[**Future of MES—Impact of Industrial Internet of Things (IIoT) on MES Platforms**](https://store.frost.com/future-of-mes-impact-of-industrial-internet-of-things-iiot-on-mes-platforms.html?)

**MES Demystified—How is the IIoT Poised to Boost MES Platforms?**

*Region : Global*

This Frost & Sullivan research service analyzes the impact of Industrial Internet of Things (IIoT) technologies on Manufacturing Execution Systems (MES). This research also identifies some visionary companies that have developed best-in-class IIoT-enabled MES solutions. The manufacturing sector is shifting towards the execution of production operat...

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[**READ MORE**](https://store.frost.com/future-of-mes-impact-of-industrial-internet-of-things-iiot-on-mes-platforms.html?)

[[World Product Lifecycle Management Solutions Markets](https://store.frost.com/world-product-lifecycle-management-solutions-markets.html?)](https://store.frost.com/world-product-lifecycle-management-solutions-markets.html?" \o "World Product Lifecycle Management Solutions Markets)

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May 2006](https://store.frost.com/world-product-lifecycle-management-solutions-markets.html?" \o "World Product Lifecycle Management Solutions Markets)*

[**World Product Lifecycle Management Solutions Markets**](https://store.frost.com/world-product-lifecycle-management-solutions-markets.html?)

*Region : Global*

This research service on World Product Lifecycle Management Solutions Markets provides critical insights into the market including challenges, drivers, restraints, and revenue forecasts. The research service looks into the authoring and analysis tools, collaborative product definition management, software, services, automotive, aerospace and defens...

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USD 3,465

[**READ MORE**](https://store.frost.com/world-product-lifecycle-management-solutions-markets.html?)

[**World Calibration Services Market**](https://store.frost.com/world-calibration-services-market.html?)

*Region : Global*

The World Calibration Services market is segmented into Electrical,Mechanical,Thermodynamic and Physical/Dimensional calibration services. End-User markets like Communications ,Electronic manufacturing , Automotive , Aerospace and Defense are analysed fore each of the segments.Current issues facing the market, revenue and distribution forecasts...

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[[North American MEMS-Based Sensors Markets](https://store.frost.com/north-american-mems-based-sensors-markets.html?)](https://store.frost.com/north-american-mems-based-sensors-markets.html?" \o "North American MEMS-Based Sensors Markets)

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Oct 2002](https://store.frost.com/north-american-mems-based-sensors-markets.html?" \o "North American MEMS-Based Sensors Markets)*

[**North American MEMS-Based Sensors Markets**](https://store.frost.com/north-american-mems-based-sensors-markets.html?)

*Region : North America*

Over recent years, Micro-Electromechanical Systems (MEMS)-based sensors has experienced healthy growth rates in all four North American end-user markets covered in this study such as industrial, automotive, aerospace and defense (A&D), and medical. Nevertheless, all of these markets are anticipated to experience slight declines in revenue growth ra...

~~USD 2,450~~

USD 1,715

[**READ MORE**](https://store.frost.com/north-american-mems-based-sensors-markets.html?)

[[Mega Trends to Shape the Future of the Electronics Test and Measurement (T&M) Industry](https://store.frost.com/mega-trends-to-shape-the-future-of-the-electronics-test-and-measurement-t-m-industry.html?)](https://store.frost.com/mega-trends-to-shape-the-future-of-the-electronics-test-and-measurement-t-m-industry.html?" \o "Mega Trends to Shape the Future of the Electronics Test and Measurement (T&M) Industry)

*[27   
Nov 2012](https://store.frost.com/mega-trends-to-shape-the-future-of-the-electronics-test-and-measurement-t-m-industry.html?" \o "Mega Trends to Shape the Future of the Electronics Test and Measurement (T&M) Industry)*

[**Mega Trends to Shape the Future of the Electronics Test and Measurement (T&M) Industry**](https://store.frost.com/mega-trends-to-shape-the-future-of-the-electronics-test-and-measurement-t-m-industry.html?)

*Region : North America*

This private Market Insights provides an overview of the key mega trends expected to impact some of the major end-user industries of electronics test and measurement equipment. They include wireless communications, aerospace and defense, medical devices, energy, automotive, consumer electronics and the electronics manufacturing services industries....

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USD 1,125

[**READ MORE**](https://store.frost.com/mega-trends-to-shape-the-future-of-the-electronics-test-and-measurement-t-m-industry.html?)

[[Analysis of the Signal Generator and Arbitrary Waveform Generator Market](https://store.frost.com/analysis-of-the-signal-generator-and-arbitrary-waveform-generator-market-17451.html?)](https://store.frost.com/analysis-of-the-signal-generator-and-arbitrary-waveform-generator-market-17451.html?" \o "Analysis of the Signal Generator and Arbitrary Waveform Generator Market)

*[07   
Dec 2011](https://store.frost.com/analysis-of-the-signal-generator-and-arbitrary-waveform-generator-market-17451.html?" \o "Analysis of the Signal Generator and Arbitrary Waveform Generator Market)*

[**Analysis of the Signal Generator and Arbitrary Waveform Generator Market**](https://store.frost.com/analysis-of-the-signal-generator-and-arbitrary-waveform-generator-market-17451.html?)

**Wireless decade to drive the test equipment industry**

*Region : Asia Pacific*

An analysis of the signal generator and arbitrary waveform generator market in emerging regions is provided in this research service/study. This market covers three segments including radio frequency signal generators (RF SGs), microwave signal generators (MW SGs) and arbitrary waveform generators (AWGs). Military aerospace and defense activities a...

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[**READ MORE**](https://store.frost.com/analysis-of-the-signal-generator-and-arbitrary-waveform-generator-market-17451.html?)

[[options_container](https://store.frost.com/vxi-pxi-and-axie-test-and-measurement-market-forecast-to-2020.html?)](https://store.frost.com/vxi-pxi-and-axie-test-and-measurement-market-forecast-to-2020.html?" \o "options_container)

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Mar 2016](https://store.frost.com/vxi-pxi-and-axie-test-and-measurement-market-forecast-to-2020.html?" \o "options_container)*

[**VXI, PXI, and AXIe Test and Measurement Market, Forecast to 2020**](https://store.frost.com/vxi-pxi-and-axie-test-and-measurement-market-forecast-to-2020.html?)

**New Technologies Such as 5G to Promote Modular Approach, Drive New Growth Opportunities**

*Region : Global*

Instrumentation based on PXI and AXIe are driving growth in the automated test equipment market and a shift from bench to modular instruments. Worth $809.7 million in 2015, market revenues are expected to reach $1,766.7 million by 2020, at a CAGR of 15.2%. Research Scope In comparison to traditional rack-and-stack test systems, modular systems are ...

USD 3,000

[**READ MORE**](https://store.frost.com/vxi-pxi-and-axie-test-and-measurement-market-forecast-to-2020.html?)

[[Heat-resistant Polymers in the Automotive Industry - Future Tech TOE](https://store.frost.com/heat-resistant-polymers-in-the-automotive-industry-future-tech-toe.html?)](https://store.frost.com/heat-resistant-polymers-in-the-automotive-industry-future-tech-toe.html?" \o "Heat-resistant Polymers in the Automotive Industry - Future Tech TOE)

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Oct 2016](https://store.frost.com/heat-resistant-polymers-in-the-automotive-industry-future-tech-toe.html?" \o "Heat-resistant Polymers in the Automotive Industry - Future Tech TOE)*

[**Heat-resistant Polymers in the Automotive Industry - Future Tech TOE**](https://store.frost.com/heat-resistant-polymers-in-the-automotive-industry-future-tech-toe.html?)

*Region : Global*

Heat-resistant polymers or high-performance polymers as they are widely known in the industry, are considered to hold solutions to key challenges faced in multiple industries. The unique differentiation offered by this class of polymers to deliver desired performance at temperatures above 150 degrees C is gaining significant attention from high gro...

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[**READ MORE**](https://store.frost.com/heat-resistant-polymers-in-the-automotive-industry-future-tech-toe.html?)

[[North American Enclosures and Cabinets Market, Forecast till 2020](https://store.frost.com/north-american-enclosures-and-cabinets-market-forecast-till-2020.html?)](https://store.frost.com/north-american-enclosures-and-cabinets-market-forecast-till-2020.html?" \o "North American Enclosures and Cabinets Market, Forecast till 2020)

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Aug 2017](https://store.frost.com/north-american-enclosures-and-cabinets-market-forecast-till-2020.html?" \o "North American Enclosures and Cabinets Market, Forecast till 2020)*

[**North American Enclosures and Cabinets Market, Forecast till 2020**](https://store.frost.com/north-american-enclosures-and-cabinets-market-forecast-till-2020.html?)

**Increased Safety and Regulations Spur Demand for Branded Enclosures**

*Region : North America*

The aim of this private market insight is to evaluate the opportunities for enclosures and cabinets across several industry sectors in North America, assessing the trends across the region during the study period. The market for enclosures and cabinets is highly fragmented and highly influenced by regional vendors due to price competitiveness. Incr...

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[**READ MORE**](https://store.frost.com/north-american-enclosures-and-cabinets-market-forecast-till-2020.html?)

[[High-strength, Lightweight Materials](https://store.frost.com/high-strength-lightweight-materials.html?)](https://store.frost.com/high-strength-lightweight-materials.html?" \o "High-strength, Lightweight Materials)

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Mar 2017](https://store.frost.com/high-strength-lightweight-materials.html?" \o "High-strength, Lightweight Materials)*

[**High-strength, Lightweight Materials**](https://store.frost.com/high-strength-lightweight-materials.html?)

*Region : Global*

High-strength, lightweight materials are in huge demand for structural applications to meet the demand from industries for stronger, durable, low-weight attributes. Examples of such materials include high-entropy metal alloys, fiber-reinforced hydrogels, and shape memory alloys. These materials are finding growing traction in the automotive, aerosp...

USD 250

[**READ MORE**](https://store.frost.com/high-strength-lightweight-materials.html?)

[[Ceramic Nanocomposites as a High Performance Alternative for Traditional Ceramic Materials](https://store.frost.com/ceramic-nanocomposites-as-a-high-performance-alternative-for-traditional-ceramic-materials.html?)](https://store.frost.com/ceramic-nanocomposites-as-a-high-performance-alternative-for-traditional-ceramic-materials.html?" \o "Ceramic Nanocomposites as a High Performance Alternative for Traditional Ceramic Materials)

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Feb 2017](https://store.frost.com/ceramic-nanocomposites-as-a-high-performance-alternative-for-traditional-ceramic-materials.html?" \o "Ceramic Nanocomposites as a High Performance Alternative for Traditional Ceramic Materials)*

[**Ceramic Nanocomposites as a High Performance Alternative for Traditional Ceramic Materials**](https://store.frost.com/ceramic-nanocomposites-as-a-high-performance-alternative-for-traditional-ceramic-materials.html?)

*Region : Global*

Development of new ceramic nanocomposites is gaining importance due to a sustained end application requirements for high performance and durable composites. Growing demand for ceramic nanocomposites is mainly driven by the needs from automotive, aerospace, construction, and energy industries have spurred research and developmental efforts across t...

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[**READ MORE**](https://store.frost.com/ceramic-nanocomposites-as-a-high-performance-alternative-for-traditional-ceramic-materials.html?)

[[High-strength Glass Fiber Reinforcements - High-Tech Materials TOE](https://store.frost.com/high-strength-glass-fiber-reinforcements-high-tech-materials-toe.html?)](https://store.frost.com/high-strength-glass-fiber-reinforcements-high-tech-materials-toe.html?" \o "High-strength Glass Fiber Reinforcements - High-Tech Materials TOE)

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[**High-strength Glass Fiber Reinforcements - High-Tech Materials TOE**](https://store.frost.com/high-strength-glass-fiber-reinforcements-high-tech-materials-toe.html?)

*Region : Global*

Continuous glass fibers have evolved through the years since the commercialization of the first product in 1935. Manufactured using a mix of raw materials such as silicates, soda, clay, boric acid, and a range of metal oxides, glass fibers exhibit a combination of desirable mechanical and chemical properties based on their chemical composition. Wit...

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[**READ MORE**](https://store.frost.com/high-strength-glass-fiber-reinforcements-high-tech-materials-toe.html?)

[[Global Industrial Enclosures and Cabinets Factbook, 2015](https://store.frost.com/global-industrial-enclosures-and-cabinets-factbook-2015.html?)](https://store.frost.com/global-industrial-enclosures-and-cabinets-factbook-2015.html?" \o "Global Industrial Enclosures and Cabinets Factbook, 2015)

*[06   
May 2016](https://store.frost.com/global-industrial-enclosures-and-cabinets-factbook-2015.html?" \o "Global Industrial Enclosures and Cabinets Factbook, 2015)*

[**Global Industrial Enclosures and Cabinets Factbook, 2015**](https://store.frost.com/global-industrial-enclosures-and-cabinets-factbook-2015.html?)

**Increase in Safety Compliance Measures Offers Branded Manufacturers the Prospect of Making Strong Gains**

*Region : North America*

Scope of the report The research report includes the following segments: Product scope: Industrial enclosures and cabinets Geographic scope: North America, Europe, Middle East and Africa, Asia-Pacific, Latin America End-user scope: Oil and Gas, Chemical and Petrochemicals, Power Generation, Metals and Mining, Food and Beverages, Pharmaceutica...

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[**READ MORE**](https://store.frost.com/global-industrial-enclosures-and-cabinets-factbook-2015.html?)

[American Institute of Aeronautics and Astronautics (AIAA) Standards](https://server7.kproxy.com/products/aiaa-standards.html)

and Astronautics (AIAA) contains both active and historical standards that are applied globally. These aerospace and defense standards...

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[New product design](javascript:;)

[Feasibility Analysis](javascript:;)

[Equipment and technology](javascript:;)

[Energy equipment & services](javascript:;)

[Standards and Regulations](javascript:;)

[Aerospace & Defense](javascript:;)

[Fluoroelastomers - Chemical Economics Handbook (CEH)](https://server7.kproxy.com/products/fluoroelastomers-chemical-economics-handbook.html)

operations, oil and gas recovery, semiconductor manufacture, and in the pharmaceutical, chemical process, and aircraft and aerospace...

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[ADS Standards](https://server7.kproxy.com/products/sbac-ads-standards.html)

) and the Society of British Aerospace Companies (SBAC). Publications include industry standards and additional manufacturing and...

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[Military platforms](javascript:;)

[Equipment and technology](javascript:;)

[Environmental compliance](javascript:;)

[Standards and Regulations](javascript:;)

[Aerospace & Defense](javascript:;)

[Standards and Regulations](javascript:;)

[Liquid Crystal Polymers - Chemical Economics Handbook (CEH)](https://server7.kproxy.com/products/liquid-crystal-polymers-chemical-economics-handbook.html)

remaining demand for LCPs is for industrial and automotive applications, as well as uses in medical, aerospace, and cookware applications....

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[Supply chain](javascript:;)

[Scenario planning & analysis](javascript:;)

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[American Bearing Manufacturers Association (ABMA) Standards](https://server7.kproxy.com/products/abma-standards.html)

American Bearing Manufacturers Association (ABMA) Deliver high-levels of precision during the design and manufacturing of bearings The...

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[High-Performance Thermoplastics - Specialty Chemicals Update Program (SCUP)](https://server7.kproxy.com/products/chemical-high-performance-thermoplastics-scup.html)

Manufacturing16 Sales and marketing17 Profitability18 Victrex plc18 Solvay Specialty Polymers (business unit of Solvay)19 Trends and...

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[Supply chain](javascript:;)

[Scenario planning & analysis](javascript:;)

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[Engineering Periodicals](https://server7.kproxy.com/products/engineering-periodicals.html)

innovative methods to improve manufacturing throughput, implement proven approaches for quality assurance, reduce non-compliance risks...

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[Standards and Regulations](javascript:;)

اگر منبع مورد نظرتان موجود نبود در ادامه درخواست دهید





**از این به بعد شما اساتید و دانشجویان و پژوهشگران گرامی می توانید با دادن اطلاعی از منبع مورد نظر خود به ایمیل ما، کتاب های خود را از طریق درخواست کتاب این سایت بسیار ارزان قیمت دانلود کنید.**

**–شابک کافیست مشخصات کتاب همچون نام | شماره | نام نویسنده و … را برای ما بفرستید.**

**– یا لینکی از آن در سایت های دیگر همچون آمازون ، ایی بِی، گوگل بوک ، انتشارات های اصلی و … آن را به ما بگویید.**

**-باقی کار را به ما بسپارید؛ به شما در کمتر از ۲۴ ساعت اطلاع خواهیم داد.**