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2020 Market Analysis

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Materials Science and Engineering is doing very well abroad in nations such as USA, UK, Japan, Netherlands, Singapore, Germany, and China etc. in terms of R&D. There has been very significant development towards the usage of Nanotechnology in cosmetics, food, and textiles. Nanomedicine is still in R&D stage and extensive growth is yet to be expected and intensive research is being conducted in breakneck speed.

The Global smart Materials market marked for \$36.13 billion in 2017 and is expected to reach \$127.04 billion by 2026 growing at a CAGR of 15% during the forecast period. Some are fueling the market are demand for sensors and actuators in Consumer goods and electronics and aerospace & defense. North America is anticipated to exhibit the considerable growth due to primarily owing to significant demand for smart actuators and motors in key industries such as consumer goods, automotive and aerospace.

The world market for conformal coating on the electronics market is expected to grow at a CAGR of 7% from 2015 to 2020. The global market for polyurethanes has been increasing at a CAGR (2016-2021) of 6.9%, operated by various application industries, such as automotive; bedding and furniture; building and construction; packaging; electronics and footwear. In 2011, the country was reported to have the tenth highest per capita income across the whole world. The 2012 GDP fifth largest economy in the Euro-zone. The largest industrial sector of the country is its food industry.

Materials Engineering is designed to propose comprehensive settings that report topical improvements and new strategies for expansion of advanced materials for global necessities with an objective to connect a dialogue between industries and of the country was \$709.5 billion. It is known to have the Surface Science and Engineering, Biomaterials and Tissue Engineering, Materials Engineering, Energy Materials, Mining and Metallurgy, Materials Chemistry, Polymer Technology, Emerging fields in Materials Engineering and Nanotechnology are the essential areas which are covered by <u>Materials Engineering</u>.

In fact, many believe that the combined effect of both the industrial and information revolution may approach the magnitude of change that could result from the commercialization of Nanotechnology. In developed countries research is going on for reducing the weight and increasing the strength of the material which will be required in the aeronautics and automotive industry.

Materials Engineering is the discovery and designing of new materials, with much prominence on solids. Today's research that contracts with materials science pursue to comprehend and affect the behavior of materials at a variety of measurement scales, ranging from the atomic to the macroscopic levels, making use of practical, theoretical or computational tools are as probes. The experimental researches comprise Nano-science. biological materials, high-thermal materials, the interaction of laser-materials and electrochemical methods with several applications from medicine to renewable energy.

academic administrations and knowledge transmission from research work to industry. Electrical goods, metallurgy, machinery, tourism, and chemicals are other important industries.



Figure 1: Market for Smart Materials