

Nanotechnology for better living in future

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Abstract: Nanotechnology is a present day fascinating area of science and Technology that is promising to contribute to every aspect of life inclusive of better living. The field has roots in all basic sciences including Physics Chemistry, Biology as well as Mathematics. It has grown with inputs from information technology and all the streams of technology areas. The field has developed in past two decades with inputs from all possible areas of basic and applied science as an extraordinary interdisciplinary field. With Nanotechnology there has been another observation that It has been ever relevant (directly or indirectly) if we say: From the nature, by the nature, for the nature, as the nature and/or of the nature!

An interdisciplinary approach is highly desired for a comprehensive experience of contribution in nanotechnology. It seeks information and contributes both to every possible areas of basic and applied science as well as technology. Manipulation, constructions, manufacturing, synthesis, observations of nanostructures have provided immense opportunities for better future. Nanotechnology has seen applications in industries in machines and automobiles, medicines, combustion, mining, energy generation, laundry, agriculture, pollution (related), space, military, telecom, sensors etc. just to name a few!

Since the first generation nanosystems of 2000, we have come a long way in two decades towards fourth generation nanosystems of targeted 2020 and further a long way is ahead with opportunities, challenges and possibilities in offer. This is very much evident from statistics available on number of startups, global market analysis and market revenue analysis. We need to harness the area of nanoscience and nanotechnology for a better living and future going in tune with sensitivity towards nature and environment around us.

Present day children, youth and people with awareness are getting increasingly interested in the field personally and professionally, looking at next two decades in future! Contributions of Eric Drexler, R. Mally and IBM (International Business Machines), deserves a mention to move ahead.

The seemingly unrelated words “There is a plenty of room at the bottom” by Richard P Feynman on December 29,1959, has been finally realized in past half a century.

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