

The Bloom of 3D Printing in the Health Care Industry

Authors : Mihika Shivkumar, Krishna Kumar, C. Perisamy

Abstract : 3D printing is a method of manufacturing wherein materials, such as plastic or metal, are deposited in layers one on top of the other to produce a three dimensional object. 3D printing is most commonly associated with creating engineering prototypes. However, its applications in the field of human health care have been frequently disregarded. Medical applications for 3D printing are expanding rapidly and are envisaged to revolutionize health care. Medical applications for 3D printing, both present and its potential, can be categorized broadly, including: creation of customized prosthetics tissue and organ fabrication; creation of implants, and anatomical models and pharmaceutical research regarding drug dosage forms. This piece breaks down bioprinting in the healthcare sector. It focuses on the better subtle elements of every particular point, including how 3D printing functions in the present, its impediments, and future applications in the health care sector.

Keywords : bio-printing, prototype, drug delivery, organ regeneration

Conference Title : ICME 2016 : International Conference on Mechanical Engineering

Conference Location : Boston, United States

Conference Dates : April 25-26, 2016