

Bio-Printing Markets: A Ten-Year Opportunity Forecast

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Abstracts

Bio-printing is a young but emerging field of study, whose ramifications are increasingly commercial. Promises of 3D-printed organs may catch the attention of the media, but the time has come for the wider market to take notice as well. More imminent applications of bio-printing technology will drive growth and galvanize bio-printing into a real industry over the next decade.

This industry will require dedicated hardware, software, and materials that suite its needs, and present considerable revenue opportunities. Bio-printing may only be a blip on the screen of many executives now, but this industry is flying below the radar.

It is time for the business community to take notice of bio-printing: to make efforts towards understanding exactly how what it will do and what opportunities it represents. In this report, SmarTech identifies the current state of the bio-printing sector though an analysis of processes, software, and materials employed by the industry. More than simply an industry survey, this report focuses on the strategies employed in the bio-printing market through an analysis of key players.

Readers of the report will gain an understanding of the dynamics of the industry as it stands today, as well as a framework for contextualizing new developments. The second half of the report discusses the commercial applications of bio-printing today and in the future. We have organized bio-printing opportunities on our own timeline; from the most realizable to the most distant. This discussion spans across tissues for drug testing and drug qualification, localized medicinal therapies, breast augmentation, bio-printed tissues, and total organ replacement. Each opportunity is thoroughly analyzed, providing the reader with a clear understanding of technological progress, market size, timing to market, and associated risks. We have also included a discussion

of the sources of current and future funding for bio-printing, which helps the reader understand what will keep the fire burning as bio-printing approaches these more dramatic commercial opportunities. This report concludes with a discussion of the five biggest challenges that bio-printing will face over the next decade. It is critical these issues be addressed by all stakeholders in bio-printing, as the trajectory of the industry ultimately hinges on their successful resolution. SmarTech believes that this report will provide invaluable guidance for material, software, and equipment manufacturing companies in the bio-medical industry, 3D printing industry, and other related sectors. This report will also interest specialty chemical firms, cell culturers, and forward-thinking medical professionals, clinics and laboratories. We also think that this report will prove to be required reading for investors in the budding bio-printing sector.

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