

# **Scaffold Technology Market by Product Type (Natural Scaffold and Synthetic Scaffold), by Type (Macro-porous Scaffolds, Micro-porous Scaffolds, Nano-porous Scaffolds, Solid Scaffolds), Application (Cancer Cell Research, Stem Cell Research, Drug Discovery, Regenerative Medicine, and Others), and End User (Biotechnology & Pharmaceutical Companies, Contract Research Laboratories, and Academic Institutes): Global Opportunity Analysis and Industry Forecast, 2020-2027**

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## **Abstracts**

The global scaffold technology market was valued at \$1,930.37 million in 2019, and is projected to reach \$7,522.33 million by 2027, registering a CAGR of 18.3% from 2019 to 2027.

Cell culture is a significant tool in biological research. It is mainly of two types, two-dimensional (2D) and three-dimensional (3D). Since the advent of cell culture techniques, 2D cell cultures are mostly preferred due to their availability, ease of environmental control, cell observation, and measurement. However, growing cells in flat layers on surfaces do not precisely model the in-vivo state. As compared to 2D, 3D cell culture permits the biological cells to grow and interact with their surroundings in all three dimensions. Scaffolds are 3D porous and fibrous biomaterials that promote cell interaction, viability, and extracellular matrix (ECM) deposition with minimum inflammation and toxicity.

The growth of the global scaffold technology market is majorly driven by rise in demand for body reconstruction procedures and tissue engineering, increase in usage of biomaterials, and growth of technological advancement of scaffold technology. However, high costs associated with implementation and emergence of scaffold-free technology for cell culturing are expected to hamper the growth of the market. On the contrary, increase in expenditure on R&D by governments in developing countries has high growth potential in these countries.

The scaffold technology market is segmented on the basis of product type, type, application, end user, and region. Based on product type, the scaffold technology market is divided into natural scaffold and synthetic scaffold. On the basis of type, it is divided into macro-porous scaffolds, micro-porous scaffolds, nano-porous scaffolds, and solid scaffolds. By application, it is fragmented into cancer cell research, stem cell research, drug discovery, regenerative medicine, and others. By end user, it is classified into biotechnology & pharmaceutical companies, contract research laboratories, and academic institutes. Region-wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

## KEY BENEFITS FOR STAKEHOLDERS

This report entails a detailed quantitative analysis along with the current global scaffold technology market trends from 2020 to 2027 to identify the prevailing opportunities along with the strategic assessment.

The scaffold technology market forecast is studied from 2020 to 2027.

The market size and estimations are based on a comprehensive analysis of key developments in the industry.

A qualitative analysis based on innovative products facilitates strategic business planning.

The development strategies adopted by the key market players are enlisted to understand the competitive scenario of the market.

## KEY MARKET SEGMENTS

### By Product Type

Natural Scaffold

Synthetic Scaffold

### By Type

Macro-porous Scaffolds

Micro-porous Scaffolds

Nano-porous Scaffolds

Solid Scaffolds

### By Application

Cancer Cell Research

Stem Cell Research

Drug Discovery

Regenerative Medicine

### By End User

Biotechnology & Pharmaceutical Companies

Contract Research Laboratories

Academic Institutes

## By Region

### North America

U.S.

Canada

Mexico

### Europe

Germany

France

UK

Rest of Europe

### Asia-Pacific

Japan

China

India

Australia

Rest of Asia-Pacific

### LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

## KEY MARKET PLAYERS

3D Biotek LLC

Advanced Biomatrix, Inc.

Agilent Technologies, Inc. (Biotek)

BioVison, Incorporated

Corning Incorporated

Merck KGaA (Sigmaaldrich)

PromoCell GmbH

Reprocell, Incorporation

Synthecon, Incorporated

Thermo Fisher Scientific Inc.

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