

# **Global Biosimulation Market Size study, By Product (Software, Services), By Application (Drug Development, Drug Discovery, Others), By Delivery Model (Subscription Models, Ownership Models), By End-Use (Pharmaceutical & Biotechnology Companies, CROs, Regulatory Authorities, Academic Research Institutions), and Regional Forecasts 2022-2028**

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## **Abstracts**

Global Biosimulation Market is valued at approximately USD 2.4 Billion in 2021 and is anticipated to grow with a healthy growth rate of more than 16.2% over the forecast period 2022-2028.

The use of computer software to simulate biological processes is known as biosimulation. A predictive and analytical tool called biosimulation is used in the drug discovery process to forecast the results of ongoing experimental trials. By running illness simulations, virtual clinical trials of novel pharmacological medications under development can be carried out. Biosimulation software has several uses in the pharmaceutical drug discovery and development process since it can help pharmaceutical companies find novel medications faster and more affordably. Increasing need to reduce drug discovery and development costs, as well as increasing investments in the life sciences industry, are factors that are accelerating the global market demand. For instance, in a study from April 2021 that was published in the National Center for Biotechnology Information, in silico modelling utilizing the biosimulation tool BIOiSIM was done using preclinical in vitro and in vivo datasets that were well-known. The goal of the trial was to expedite the repurposing of therapies for

pulmonary hypertension and the development of COVID-19-fighting medications. Consequentially, increasing use of personalized medicine and rising technological advancements stimulate market growth in the approaching years. However, a lack of skills & expertise impedes the growth of the market over the forecast period of 2022-2028.

The key regions considered for the global Biosimulation market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. North America is the leading region across the world in terms of market share owing to the presence of key market players, increasing adoption of digitalization in healthcare, and rising prevalence of chronic diseases. Whereas, Asia Pacific is anticipated to exhibit a significant growth rate over the forecast period 2022-2028. Factors such as rising research and development activities, and rising initiatives by public and private players would create lucrative growth prospects for the Biosimulation market across the Asia Pacific region.

Major market players included in this report are:

Certara, USA  
Simulations Plus  
Dassault Systèmes  
Schrödinger, Inc.  
Advanced Chemistry Development  
Chemical Computing Group ULC  
Physiomics Plc  
Rosa & Co. LLC  
Biosimulation Consulting Inc.  
Genedata AG

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:  
By Product:

Software

Services

By Application:

Drug Development

Drug Discovery

Others

By Delivery Model:

Subscription Models

Ownership Models

By End-Use:

Pharmaceutical & Biotechnology Companies

CROs

Regulatory Authorities

Academic Research Institutions

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of the World

Furthermore, years considered for the study are as follows:

*Global Biosimulation Market Size study, By Product (Software, Services), By Application (Drug Development, Dru...*

Historical year – 2018, 2019, 2020

Base year – 2021

Forecast period – 2022 to 2028

Target Audience of the Global Biosimulation Market in Market Study:

Key Consulting Companies & Advisors

Large, medium-sized, and small enterprises

Venture capitalists

Value-Added Resellers (VARs)

Third-party knowledge providers

Investment bankers

Investors

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