

# Global Blood Flow Simulation Software Market Growth (Status and Outlook) 2026-2032

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## Abstracts

The global Blood Flow Simulation Software market size is predicted to grow from US\$ 798 million in 2025 to US\$ 1698 million in 2032; it is expected to grow at a CAGR of 11.6% from 2026 to 2032.

Blood Flow Simulation Software uses computational fluid dynamics (CFD), hemodynamics modeling, and sometimes patient-specific medical imaging data to model and analyze how blood flows through vessels, the heart, and implanted medical devices. Medical imaging systems and anatomical data suppliers provide patient or model geometries to simulation software developers, who integrate CFD and hemodynamic modeling tools that are then used by medical device companies, hospitals, and research institutions for design, diagnosis, and treatment planning.

United States market for Blood Flow Simulation Software is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Blood Flow Simulation Software is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Blood Flow Simulation Software is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Blood Flow Simulation Software players cover ANSYS Fluent, COMSOL Multiphysics, SimVascular, OpenFOAM, Abaqus FSI, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the "Blood Flow Simulation Software

Industry Forecast” looks at past sales and reviews total world Blood Flow Simulation Software sales in 2025, providing a comprehensive analysis by region and market sector of projected Blood Flow Simulation Software sales for 2026 through 2032. With Blood Flow Simulation Software sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Blood Flow Simulation Software industry.

This Insight Report provides a comprehensive analysis of the global Blood Flow Simulation Software landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Blood Flow Simulation Software portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Blood Flow Simulation Software market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Blood Flow Simulation Software and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Blood Flow Simulation Software.

This report presents a comprehensive overview, market shares, and growth opportunities of Blood Flow Simulation Software market by product type, application, key players and key regions and countries.

### **Segmentation by Type:**

Whole-Body Circulation

Organ-Level (e.g., Heart, Brain)

Microvascular / Cellular

### **Segmentation by Dimensionality of the Model:**

0D (Lumped-Parameter) Models

1D Models (Network / Pulse-Wave)

3D Models (Full CFD)

Multiscale Models (0D + 1D + 3D Coupled)

### **Segmentation by Application:**

Clinical Research

Medical Device Design

Surgical Planning

Others

### **This report also splits the market by region:**

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

ANSYS Fluent

COMSOL Multiphysics

SimVascular

OpenFOAM

Abaqus FSI

FlowVision

Star-CCM+ (Siemens)

CFD-ACE+

SOFA Framework

Gerris Flow Solver

Palabos

Kratos Multiphysics

FEBio + FEBio Fluid

MITK Flow

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