

3D Protein Structure Analysis: Global Markets

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Abstracts

The global market for 3D protein structure analysis is expected to grow from \$3.4 billion in 2025 and is projected to reach \$5.3 billion by the end of 2030, at a compound annual growth rate (CAGR) of 9.4% during the forecast period of 2025 to 2030.

The global 3D protein structure analysis market is growing rapidly, driven by increasing demand for detailed information about protein structures to support drug development, personalized medicine and biotech research. This market encompasses various technologies, including X-ray crystallography, nuclear magnetic resonance (NMR), cryogenic electron microscopy (cryo-EM) and advanced computer modeling tools. These methods enable scientists to visualize proteins at the atomic level, which aids in designing drugs based on structure, modifying proteins and developing more effective treatments. More money is being spent on research and development, particularly in the pharmaceutical and biotechnology sectors, leading to an increased use of high-end equipment and software solutions. Geographically, North America is currently the largest market, due to the presence of major drug and biotech firms, robust research facilities and substantial funding for studying protein structures.

The Asia-Pacific region is experiencing rapid growth, with countries such as China, Japan, South Korea and India investing heavily in structural biology, expanding laboratory facilities and utilizing AI-powered tools for modeling. Europe maintains a strong position due to its long experience in protein crystallography and support for life sciences research. The global 3D protein structure analysis market is segmented into instruments and hardware, consumables and software, with AI and cloud-based platforms enhancing efficiency and reducing the need for expensive laboratory setups.

From an investment and sustainability perspective, the market has good potential. Combining AI, cloud computing, and software-as-a-service (SaaS) platforms is enhancing predictions, reducing trial-and-error in experiments and minimizing the

environmental impact of labs. The increasing use of 3D protein analysis in personalized medicine and research, which translates discoveries into real-world treatments, demonstrates its positive impact on health. However, challenges such as the high cost of equipment, complex sample preparation and a shortage of skilled experts in structural biology may slow down growth, especially in newer markets. Overall, the market is on an upward trend, supported by technological progress, more partnerships, and strategic investments in both developed and developing countries.

Report Scope

This report on the global 3D protein structure analysis market presents both qualitative and quantitative data on the current market dynamics and trends.

It also analyzes recent technological developments, reviews new product approvals and includes emerging technologies.

The market prospects for four regions—North America, Europe, Asia-Pacific and the Rest of the World—are discussed. The report also includes profiles of leading companies and their strategies.

The report offers an in-depth analysis of the global 3D protein structure analysis market, highlighting the key drivers and emerging technologies shaping this rapidly evolving field. The market is segmented by product, application, technology and region. By product, the market is segmented into consumables, software and instruments. Based on applications, the market is segmented into drug discovery research, protein engineering and biotech startups, clinical diagnosis and food technology. Based on technology, the market is segmented into cryo-electron microscopy (cryo-EM), nuclear magnetic resonance (NMR) spectroscopy, X-ray crystallography and others. For market estimates, data has been provided for 2024 as the base year, with forecasts for 2025 through 2030.

Report Includes

34 data tables and 44 additional tables

An overview of the global market for 3D protein structure analysis

In-depth analysis of global market trends, featuring revenue data for 2022-2025. This analysis includes projections of compound annual growth rates (CAGRs)

through 2030

Evaluation of the current market size and revenue growth prospects specific to the 3D protein structure analysis, accompanied by a market share analysis by product, technology, application, and region

Analysis of current and future demand in the 3D protein structure analysis, along with a detailed analysis of the competitive environment, market regulations and reimbursement practices

Analysis of drivers, challenges and opportunities affecting market growth

A comparative study and Porter's Five Forces analysis considering both the micro and macro environmental factors prevailing in the 3D protein structure analysis market

Coverage of evolving technologies, the current and future market potential, R&D activities, growth strategies, new product pipeline, regulatory framework and reimbursement - scenarios, and ESG trends of the market

Market share analysis of the key market participants of the industry, along with their research priorities, product portfolios, global rankings and competitive landscape

Profiles of major companies within the industry, including Merck KGaA, Bruker Corp., Thermo Fisher Scientific Inc., JEOL, and Spectris

Contents

CHAPTER 1 EXECUTIVE SUMMARY

Market Outlook
Scope of Report
Market Summary
Market Dynamics and Growth Factors
Emerging Technologies
Segmental Analysis
Regional Analysis
Conclusion

CHAPTER 2 MARKET OVERVIEW

Overview
Macroeconomic Factors
Global R&D Expenditure and Healthcare Investment
Technological Innovation and Industrial Digitization
Globalization of Biopharmaceutical Production and Trade Dynamics
Government Policies, Regulations and Funding Initiatives
Labor Market Dynamics and Talent Availability
Impact of U.S. Tariffs
Porter's Five Forces Analysis
Potential for New Entrants to the Market (Moderate to High)
Bargaining Power of Suppliers (Low to Moderate)
Bargaining Power of Buyers (High)
Threat of Substitutes (Low to Moderate)
Competition in the Industry (High)

CHAPTER 3 MARKET DYNAMICS

Overview
Market Drivers
Rising Demand for Structure-Based Drug Discovery and Development
Technological Advances in Cryo-EM, NMR and AI-Driven Structural Modeling
Expanding Government, Institutional and CRO Investments
Growth in Structural Databases and Academic-Industry Collaborations
Market Restraints

High Capital and Operating Costs of Instruments and Workflows
Shortage of Trained Personnel and Complex, Time-Consuming Workflows
Market Opportunities
Integration of AI, Cloud and SaaS-Based Modeling Platforms
Rising R&D Investments in the APAC Market
Expanding Role in Precision Medicine and Translational Research

CHAPTER 4 REGULATORY LANDSCAPE

Overview
Regulatory Scenario in the U.S.
Regulatory Scenario in Europe
Regulatory Scenario in the Asia-Pacific Region
Japan
China
India
Regulatory Scenario in the Rest of the World

CHAPTER 5 EMERGING TECHNOLOGIES AND PATENT ANALYSIS

Emerging Technologies
Integration of artificial intelligence (AI) and machine learning (ML) in Protein Structure Prediction
Growth of Cryogenic Electron Microscopy (Cryo-EM) and Hybrid Structural Biology
Patent Analysis

CHAPTER 6 MARKET SEGMENTATION ANALYSIS

Segmentation Breakdown
Market Breakdown by Product
Takeaways
Market Breakdown by Application
Takeaways
Market Breakdown by Technology
Takeaways
Geographic Breakdown
Market Breakdown by Region
Takeaways
North America

Europe
Asia-Pacific
Middle East and Africa
South America

CHAPTER 7 COMPETITIVE INTELLIGENCE

Competitive Analysis
Strategic Analysis
Investment Landscape

CHAPTER 8 SUSTAINABILITY IN GLOBAL 3D PROTEIN STRUCTURE ANALYSIS MARKET: ESG PERSPECTIVE

Overview
Sustainability Trends and Initiatives of AI in the 3D Protein Structure Analysis Market Industry
ESG Risk Ratings
Concluding Remarks from BCC Research

CHAPTER 9 APPENDIX

Research Methodology
Abbreviations
Company Profiles
ARINAX SCIENTIFIC INSTRUMENTATION
BRUKER CORP.
CAMBRIDGE ISOTOPE LABORATORIES INC.
CORNING INC.
DASSAULT SYSTEMES
HAMPTON RESEARCH CORP.
JENA BIOSCIENCE GMBH
JEOL LTD.
MERCK KGAA
PROMEGA CORP.
REVVITY
RIGAKU HOLDINGS CORP.
SCHRODINGER INC.
SPECTRIS

THERMO FISHER SCIENTIFIC INC.
Emerging Startups/Market Disruptors

List Of Tables

LIST OF TABLES

Summary Table : Global Market for 3D Protein Structure Analysis, by Region, Through 2030

Table 1 : Case Studies of Technological Advances in 3D Protein Structure

Table 2 : Global Market for 3D Protein Structure Analysis, by Product, Through 2030

Table 3 : Global Market for 3D Protein Structure Analysis, by Application, Through 2030

Table 4 : Global Market for 3D Protein Structure Analysis, by Technology, Through 2030

Table 5 : Global Market for 3D Protein Structure Analysis, by Region, Through 2030

Table 6 : North American Manufacturers' List for 3D Protein Structure Analysis Market with Key Products

Table 7 : North American Market for 3D Protein Structure Analysis, by Product, Through 2030

Table 8 : North American Market for 3D Protein Structure Analysis, by Application, Through 2030

Table 9 : North American Market for 3D Protein Structure Analysis, by Technology, Through 2030

Table 10 : North American Market for 3D Protein Structure Analysis, by Country, Through 2030

Table 11 : European Market for 3D Protein Structure Analysis, by Product, Through 2030

Table 12 : European Market for 3D Protein Structure Analysis, by Application, Through 2030

Table 13 : European Market for 3D Protein Structure Analysis, by Technology, Through 2030

Table 14 : European Market for 3D Protein Structure Analysis, by Country, Through 2030

Table 15 : Asia-Pacific Market for 3D Protein Structure Analysis, by Product, Through 2030

Table 16 : Asia-Pacific Market for 3D Protein Structure Analysis, by Application, Through 2030

Table 17 : Asia-Pacific Market for 3D Protein Structure Analysis, by Technology, Through 2030

Table 18 : Asia-Pacific Market for 3D Protein Structure Analysis, by Country, Through 2030

Table 19 : MEA Market for 3D Protein Structure Analysis, by Product, Through 2030

- Table 20 : MEA Market for 3D Protein Structure Analysis, by Application, Through 2030
- Table 21 : MEA Market for 3D Protein Structure Analysis, by Technology, Through 2030
- Table 22 : MEA Market for 3D Protein Structure Analysis, by Sub-Region, Through 2030
- Table 23 : South American Market for 3D Protein Structure Analysis, by Product, Through 2030
- Table 24 : South American Market for 3D Protein Structure Analysis, by Application, Through 2030
- Table 25 : South American Market for 3D Protein Structure Analysis, by Technology, Through 2030
- Table 26 : South American Market for 3D Protein Structure Analysis, by Country, Through 2030
- Table 27 : Agreements, Collaborations and Partnerships in the Global 3D Protein Structure Analysis Market, 2022-2024
- Table 28 : ESG Risk Rankings for 3D Protein Structure Analysis Market, 2025*
- Table 29 : Abbreviations Used in this Report
- Table 30 : Arinax Scientific Instrumentation: Company Snapshot
- Table 31 : Arinax Scientific Instrumentation: Product Portfolio
- Table 32 : Bruker Corp.: Company Snapshot
- Table 33 : Bruker Corp.: Financial Performance, FY 2023 and 2024
- Table 34 : Bruker Corp.: Product Portfolio
- Table 35 : Bruker Corp.: News/Key Developments, 2024-2025
- Table 36 : Cambridge Isotope Laboratories Inc.: Company Snapshot
- Table 37 : Cambridge Isotope Laboratories Inc.: Product Portfolio
- Table 38 : Corning Inc.: Company Snapshot
- Table 39 : Corning Inc.: Financial Performance, FY 2023 and 2024
- Table 40 : Corning Inc.: Product Portfolio
- Table 41 : Corning Inc.: News/Key Developments, 2023 - 2024
- Table 42 : Dassault Syst?mes: Company Snapshot
- Table 43 : Dassault Syst?mes: Financial Performance, FY 2023 and 2024
- Table 44 : Dassault Syst?mes: Product Portfolio
- Table 45 : Dassault Syst?mes: News/Key Developments, 2024 - 2025
- Table 46 : Hampton Research Corp.: Company Snapshot
- Table 47 : Hampton Research Corp.: Product Portfolio
- Table 48 : Jena Bioscience GmbH: Company Snapshot
- Table 49 : Jena Bioscience GmbH: Product Portfolio
- Table 50 : JEOL Ltd.: Company Snapshot
- Table 51 : JEOL Ltd.: Financial Performance, FY 2023 and 2024
- Table 52 : JEOL Ltd.: Product Portfolio
- Table 53 : JEOL Ltd: News/Key Developments, 2024

- Table 54 : Merck KGaA: Company Snapshot
- Table 55 : Merck KGaA: Financial Performance, FY 2023 and 2024
- Table 56 : Merck KGaA: Product Portfolio
- Table 57 : Merck KGaA: News/Key Developments, 2022-2025
- Table 58 : Promega Corp.: Company Snapshot
- Table 59 : Promega Corp.: Product Portfolio
- Table 60 : Revvity: Company Snapshot
- Table 61 : Revvity: Financial Performance, FY 2023 and 2024
- Table 62 : Revvity: Product Portfolio
- Table 63 : Rigaku Holdings Corp.: Company Snapshot
- Table 64 : Rigaku Holdings Corp.: Financial Performance, FY 2023 and 2024
- Table 65 : Rigaku Holdings Corp.: Product Portfolio
- Table 66 : Schrödinger Inc.: Company Snapshot
- Table 67 : Schrödinger Inc.: Financial Performance, FY 2023 and 2024
- Table 68 : Schrödinger Inc.: Product Portfolio
- Table 69 : Schrödinger Inc.: News/Key Developments, 2023 - 2024
- Table 70 : Spectris: Company Snapshot
- Table 71 : Spectris: Financial Performance, FY 2023 and 2024
- Table 72 : Spectris: Product Portfolio
- Table 73 : Thermo Fisher Scientific Inc.: Company Snapshot
- Table 74 : Thermo Fisher Scientific Inc.: Financial Performance, FY 2023 and 2024
- Table 75 : Thermo Fisher Scientific Inc.: Product Portfolio
- Table 76 : Thermo Fisher Scientific Inc.: News/Key Developments, 2023 - 2024
- Table 77 : List of a Few Emerging Startups in the 3D Protein Structure Analysis Market

List Of Figures

LIST OF FIGURES

Summary Figure : Global Market Shares for 3D Protein Structure Analysis, by Region, 2024

Figure 1 : Porter's Five Forces Analysis

Figure 2 : Market Dynamics Snapshot for 3D Protein Structure Analysis

Figure 3 : Patent Shares for the 3D Protein Structure Analysis, by Jurisdiction, 2025

Figure 4 : Global Market Shares for 3D Protein Structure Analysis, by Product, 2024

Figure 5 : Global Market Shares for 3D Protein Structure Analysis, by Application, 2024

Figure 6 : Global Market Shares for 3D Protein Structure Analysis, by Technology, 2024

Figure 7 : Global Market Shares for 3D Protein Structure Analysis, by Region, 2024

Figure 8 : North American Market Shares for 3D Protein Structure Analysis, by Product, 2024

Figure 9 : North American Market Shares for 3D Protein Structure Analysis, by Application, 2024

Figure 10 : North American Market Shares for 3D Protein Structure Analysis, by Technology, 2024

Figure 11 : North American Market Shares for 3D Protein Structure Analysis, by Country, 2024

Figure 12 : European Market Shares for 3D Protein Structure Analysis, by Product, 2024

Figure 13 : European Market Shares for 3D Protein Structure Analysis, by Application, 2024

Figure 14 : European Market Shares for 3D Protein Structure Analysis, by Technology, 2024

Figure 15 : European Market Shares for 3D Protein Structure Analysis, by Country, 2024

Figure 16 : Asia-Pacific Market Shares for 3D Protein Structure Analysis, by Product Type, 2024

Figure 17 : Asia-Pacific Market Shares for 3D Protein Structure Analysis, by Application, 2024

Figure 18 : Asia-Pacific Market Shares for 3D Protein Structure Analysis, by Technology, 2024

Figure 19 : Asia-Pacific Market Shares for 3D Protein Structure Analysis, by Country, 2024

Figure 20 : MEA Market Shares for 3D Protein Structure Analysis, by Product Type, 2024

- Figure 21 : MEA Market Shares for 3D Protein Structure Analysis, by Application, 2024
- Figure 22 : MEA Market Shares for 3D Protein Structure Analysis, by Technology, 2024
- Figure 23 : MEA Market Shares for 3D Protein Structure Analysis, by Sub-Region, 2024
- Figure 24 : South American Market Shares for 3D Protein Structure Analysis, by Product, 2024
- Figure 25 : South American Market Shares for 3D Protein Structure Analysis, by Application, 2024
- Figure 26 : South American Market Shares for 3D Protein Structure Analysis, by Technology, 2024
- Figure 27 : South American Market Shares for 3D Protein Structure Analysis, by Country, 2024
- Figure 28 : Global Market Shares for 3D Protein Structure Analysis, by Leading Companies, 2024
- Figure 29 : Bruker Corp.: Revenue Shares, by Business Unit, FY 2024
- Figure 30 : Bruker Corp.: Revenue Shares, by Country/Region, FY 2024
- Figure 31 : Corning Inc.: Revenue Shares, by Business Unit, FY 2024
- Figure 32 : Corning Inc.: Revenue Shares, by Country/Region, FY 2024
- Figure 33 : Dassault Syst?mes: Revenue Shares, by Business Unit, FY 2024
- Figure 34 : Dassault Syst?mes: Revenue Shares, by Region, FY 2024
- Figure 35 : JEOL Ltd.: Revenue Shares, by Business Unit, FY 2024
- Figure 36 : JEOL Ltd.: Revenue Shares, by Country/Region, FY 2024
- Figure 37 : Merck KGaA: Revenue Shares, by Business Unit, FY 2024
- Figure 38 : Merck KGaA: Revenue Shares, by Country/Region, FY 2024
- Figure 39 : Revvity: Revenue Shares, by Business Unit, FY 2024
- Figure 40 : Revvity: Revenue Shares, by Country/Region, FY 2024
- Figure 41 : Rigaku Holdings Corp.: Revenue Shares, by Country/Region, FY 2024
- Figure 42 : Schr?dinger Inc.: Revenue Shares, by Business Unit, FY 2024
- Figure 43 : Schr?dinger Inc.: Revenue Shares, by Region/Country, FY 2024
- Figure 44 : Spectris: Revenue Shares, by Business Unit, FY 2024
- Figure 45 : Spectris: Revenue Shares, by Country/Region, FY 2024
- Figure 46 : Thermo Fisher Scientific Inc.: Revenue Shares, by Business Unit, FY 2024
- Figure 47 : Thermo Fisher Scientific Inc.: Revenue Shares, by Region/Country, FY 2024

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