

Global Bioinformatics Services Market Size Study, By Type (NGS, Chemoinformatics, Microarray Data Analysis, Biological Data Curation), By Application (Genomics, Proteomics, Metabolomics, Drug Discovery), By Sector (Medical, Animal, Agricultural, Academics), and Regional Forecasts 2022-2032

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Abstracts

The global bioinformatics services market was valued at approximately USD 2.8 billion in 2023 and is anticipated to witness a robust CAGR of 14.46% from 2024 to 2032. With the rising adoption of next-generation sequencing (NGS), artificial intelligence (AI), and machine learning (ML) algorithms, bioinformatics is revolutionizing multiple industries, including pharmaceuticals, biotechnology, and clinical research. The growing demand for personalized medicine, drug discovery, and genomics research has significantly fueled investments in bioinformatics services, making it an indispensable tool for genetic data analysis and molecular modeling.

The integration of AI-driven bioinformatics platforms has transformed how data is processed, analyzed, and interpreted in medical research and precision medicine. Cloud-based bioinformatics services have further propelled market growth by offering scalable, flexible, and cost-efficient solutions for large-scale genomic data analysis. The rising prevalence of chronic diseases such as cancer and cardiovascular disorders has also led to an increased demand for bioinformatics-driven drug discovery, enhancing the industry's expansion. Additionally, government-backed initiatives in genomics, combined with strategic collaborations between biotech firms, pharmaceutical companies, and research institutions, continue to strengthen the market's global presence.

The expansion of bioinformatics services in emerging markets such as Asia Pacific, Latin America, and the Middle East & Africa is accelerating due to rising genomics investments and biotech advancements. Countries such as China, India, and Japan are heavily investing in biotechnology, supported by government funding and research initiatives. Meanwhile, North America remains a dominant player, with leading bioinformatics firms, research institutions, and pharmaceutical giants leveraging bioinformatics tools for advanced drug discovery, precision medicine, and agricultural genomics.

Major market players included in this report are:

Agilent Technologies, Inc.

BGI Group

Dotmatics

Labvantage - Biomax GmbH

CD Genomics

Creative Biolabs

DNAnexus, Inc.

DNASTAR

Fios Genomics

Illumina, Inc.

PerkinElmer Inc.

QIAGEN

Thermo Fisher Scientific Inc.

SOPHiA GENETICS

Strand Life Sciences

The detailed segments and sub-segments of the market are explained below:

By Type

Next-Generation Sequencing (NGS)

Targeted Sequencing Analysis

Transcriptome Analysis

Whole Genome

Chip Seq Analysis

De novo Assembly

Methyl Seq Analysis

Chemoinformatics

Sequence Analysis Platforms

Molecular Modeling

Docking

Clinical Trial Data Management

Others

Microarray Data Analysis

Biological Data Curation

Scientific Software Testing

Other Services

By Application

Genomics

Transcriptomics

Proteomics

Metabolomics

Drug Discovery

Others

By Sector

Medical

Animal

Agricultural

Academics

By Region

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Spain

Denmark

Sweden

Norway

Asia Pacific

Japan

China

India

Australia

South Korea

Thailand

Latin America

Brazil

Argentina

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Years considered for the study:

Historical Year: 2022

Base Year: 2023

Forecast Period: 2024-2032

Key Takeaways:

Market estimates and forecasts for 10 years (2022-2032).

Annualized revenues and regional-level analysis for each market segment.

Detailed competitive landscape analysis.

Insights into key industry trends and future market opportunities.

Demand-side and supply-side analysis of the bioinformatics services market.

Coverage of regulatory frameworks, data security standards, and privacy laws affecting the market.

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