

Bioinformatics Market based on by Technology & Services (Knowledge Management Tools, Bioinformatics Platforms, and Bioinformatics Services), Application (Metabolomics, Molecular Phylogenetics, Transcriptomics, Proteomics, Chemoinformatics, Genomics, and Others), and Sector (Medical Bioinformatics, Animal Bioinformatics, Agriculture Bioinformatics, Academics, and Others), Regional Outlook– Global Forecast up to 2030

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Abstracts

Many governments and business organisations throughout the world are investing in bioinformatics. These expenditures have resulted in technical breakthroughs in bioinformatics services, which have increased their quality. For example, the European Molecular Biology Laboratory (EMBL), an intergovernmental organisation and pioneer in bioinformatics research, received funding in 2016 from the Biotechnology and Biological Sciences Research Council, the British Heart Foundation, Cancer Research UK, the European Commission, the European Molecular Biology Organisation, the European Research Council, the Foundation of the National Institutes of Health, the Bill & Melinda Gates Foundation, the Human Frontier Science Programme, and the European Research Council.

Advances in NGS technology have increased the demand for speedy and accurate bioinformatics tools that are simple to use. Scientists that do experimental research are not always bioinformaticians. As a result, the availability of user-friendly tools is critical

for using bioinformatics platforms. Many bioinformatics applications need considerable computer skills, owing to a lack of a suitable user interface.

The cost of genomic equipment with advanced features and functionality ranges between USD 10 and 20 million. Because pharmaceutical and bioinformatics firms and research facilities require a large number of such systems, their financial outlay for acquiring many genomic instruments is substantial. Small and medium-sized pharmaceutical and bioinformatics enterprises, as well as research facilities, cannot afford to make such large expenditures in multiple genomics.

Research Methodology:

After secondary research provided a fundamental understanding of the worldwide Bioinformatics Market scenario, extensive primary research was carried out. A number of primary interviews were carried out with industry experts from the supply and demand sides, including C- and D-level executives, product managers, and marketing and sales managers of major manufacturers, distributors, and channel partners from tier 1 and tier 2 companies offering Bioinformatics Market, as well as personnel from academia, research, and CROs. These interviews were conducted across five major regions: North America, Europe, Asia Pacific, and the Rest of the World (Latin America & the Middle East & Africa). Participants from the supply-side and demand-side participated in about 70% and 30% of the primary interviews, respectively. Through the use of questionnaires, emails, online surveys, in-person interviews, and phone interviews, this main data was gathered. The primary participants share is given below:

The segmentation coverage of the study is provided below.

Bioinformatics Market based on Technology and Services:

Knowledge Management Tools

Generalized Knowledge Management Tools

Specialized Knowledge Management Tools

Bioinformatics Platforms

Sequence Analysis Platforms

Sequence Alignment Platforms

Sequence Manipulation Platforms

Structural Analysis Platforms

Others

Bioinformatics Services

Sequencing Services

Database Management

Data Analysis

Others

Bioinformatics Market based on Application:

Metabolomics

Molecular Phylogenetics

Transcriptomics

Proteomics

Chemoinformatics & Drug design

Genomics

Others

Bioinformatics Market based on Sector:

Medical Bioinformatics

Animal Bioinformatics

Agriculture Bioinformatics

Academics

Others

Bioinformatics Market based on Geography:

North America

US

Canada

Europe

Germany

UK

France

Italy

Spain

Rest of Europe (RoE)

Asia Pacific (APAC)

China

Japan

India

Australia

South Korea

Rest of Asia Pacific (RoAPAC)

Latin America (LATAM)

Brazil

Argentina

Rest of South America

Middle East and Africa (MEA)

UAE

Turkey

Saudi Arabia

South Africa

Rest of Middle East & Africa

Bioinformatics is a field that merges biology and information technology. It links biological data with information gathering, dissemination, and assessment methods to support a wide range of scientific research applications, including biomedicine. It makes use of a variety of software tools for database creation, data administration, warehousing, and mining. Data mining generates scientific insights that may be used to genetics and genomic research. Bioinformatics, which combines computer programming, big data, and biology, helps scientists to interpret and find patterns in biological data. It is useful in genome research and DNA sequencing because it helps scientists to organise massive volumes of data. There are several bioinformatics tools available on the market. These include tools for protein functional and analysis, homology and similarity, sequence analysis, and others.

The global bioinformatics business is expected to increase significantly in the future due to the increasing need for integrated data and the expansion of proteomics and genomics. Furthermore, drug discovery and development are expected to drive market growth throughout the forecast period. However, a lack of qualified professionals and common data formats is projected to stymie market growth over the projection period. In contrast, market participants are expected to benefit from increased demand for integrated solutions and systems.

The bioinformatics market is divided into three categories: knowledge management tools, bioinformatics platforms, and bioinformatics services. The bioinformatics platforms category contributed the most revenue in 2019, and this trend is expected to continue during the projection period, owing to a growth in platform applications and a demand for better tools in drug development. The rise in platform application can be ascribed to an increase in demand from life science firms for structural identification and modification. This, in turn, would aid in the medication design process and the evaluation of therapeutic effects. Furthermore, the need for better drug development tools grows as efficiency and safety in drug research and discovery improve. As a result, the bioinformatics market is likely to grow in the future.

The bioinformatics market is divided into applications such as metabolomics, molecular phylogenetics, transcriptomics, proteomics, chemoinformatics & drug design, genomics, and others. The transcriptomics category is expected to expand the most throughout the forecast period, owing to an increase in demand for companion diagnostics and personalised therapeutics. Furthermore, innovative gene sequencing, ongoing biomarker development, and global acceptance of transcriptomics technology are projected to fuel bioinformatics industry growth.

The bioinformatics market is divided into four regions: North America, Europe, Asia-Pacific, and Latin America. North America led the market in 2019, accounting for the largest share, and this trend is expected to continue throughout the forecast period. This is due to a growth in the use of sophisticated technology as well as an increase in the need for improved bioinformatics tools, which are essential in the drug research and development process. Because of breakthroughs in genomics and proteomics, which generate huge amounts of data that must be evaluated and handled, the market in LAMEA is predicted to expand at the fastest CAGR over the forecast period. Furthermore, the bioinformatics industry is still in its infancy in the region, where research activities are progressively expanding.

The key players operating in the global bioinformatics industry, namely, Agilent Technologies, Inc., Biomax Informatics AG, DNAnexus, Inc., Genedata AG, Intrexon Bioinformatics Germany GmbH, Illumina Inc., Perkinelmer Inc., Qiagen N.V., Seven Bridges Genomics Inc., and Thermo Fisher Scientific, Inc. The other players in the value chain include Geneva Bioinformatics (Genebio), Dassault Systems, Eurofins Scientific, Bruker Daltonics Inc., Accelrys, Inc., Affymetrix, Inc., SA Nonlinear Dynamics, and Quest Diagnostics, Inc.

This report illustrates the most vital attributes of the Bioinformatics Market, which are driving and providing opportunities.

This research gives an in-depth analysis of the Bioinformatics Market growth on the basis of several segments in the market.

This report presents the predictions of the past and present trends of the Bioinformatics Market.

This study also presents the competitive analysis, such as key strategies and capabilities of major players of the Bioinformatics Market.

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