

# Bioinformatics - Market Insights, Competitive Landscape and Market Forecast–2027

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## Abstracts

This report can be delivered to the clients within 7-10 Business Days

Bioinformatics Market By Type (Bioinformatics Products, Bioinformatics Services), By Bioinformatics Products (Knowledge Management Tools, Bioinformatics Platforms), By Application (Genomics, Proteomics, Transcriptomics, Others), By Sector (Medical Bioinformatics, Animal Bioinformatics, Agriculture Bioinformatics, Others), by geography is expected to grow at a steady CAGR forecast till 2027 owing to rising demand for both nucleic acid and protein sequencing and rising need for integrated data

Global Bioinformatics Market was valued at USD 20.12 Billion in 2021, growing at a CAGR of 15.14% during the forecast period from 2022 to 2027 to reach USD 46.88 Billion by 2027. The Bioinformatics market is witnessing positive growth owing to the rising demand for both nucleic acid and protein sequencing, rising need for integrated data, technological innovation in product development, thereby contributing to the growth of the Bioinformatics market during the forecast period from 2022-2027.

Bioinformatics Market Dynamics:

The Bioinformatics market is witnessing a growth in product demand owing to various reasons. The rising demand for both nucleic acid and protein sequencing is the key driving factor for the Bioinformatics market.

Protein sequencing is the practical process of determining the amino acid sequence of all or parts of a protein or peptide. Protein sequencing is the process that helps in the identification of protein or characterizing the post-translational modifications.

DNA sequencing is the process for determining the nucleic acid sequence—the order of nucleotides in the DNA. It includes different methods or technology for determining the order of the four bases, such as adenine, guanine, cytosine, and thymine.

The introduction of various tools such as DNAnexus Apollo and DNAnexus Titan by DNANEXUS INC. helps in accelerating the process of precision drug discovery.

Furthermore, the bioinformatics platform also provides precision drug discovery programs by empowering the scientists and clinicians for exploring and analyzing both omics and clinical data together, in a single environment based on a robust, scalable, cloud platform. These platforms will further contribute to the industry's growth.

Furthermore, the need for disease management, prevention, and treatment coupled with developments in bioinformatics augments the market growth.

Most importantly, the current COVID-19 pandemic and demand for newer treatments and vaccines will also increase the demand for nucleic acid and protein sequencing.

Therefore, due to the rising demand for nucleic acid and protein sequencing, there will be an increase in the demand for bioinformatics, thereby fueling the market growth for Bioinformatics.

However, higher costs associated with the bioinformatics software and services and dearth of skilled professionals may be certain limiting factors of the Bioinformatics market growth.

The unprecedented COVID-19 outbreak had a profound impact on the market for Bioinformatics. Most importantly, the current COVID-19 pandemic and the rising demand for newer treatments and vaccines help in providing better opportunities for the global bioinformatics market. Bioinformatics has always had huge potential when it comes to providing essential support to several areas of scientific research. One of the major focus areas for every country during COVID-19 has been to study and halt the progress of the virus.

**Bioinformatics Market Segment Analysis:**

Bioinformatics Market By Type (Bioinformatics Products, Bioinformatics Services), By Bioinformatics Products (Knowledge Management Tools, Bioinformatics Platforms), By

Application (Genomics, Proteomics, Transcriptomics, Others), By Sector (Medical Bioinformatics, Animal Bioinformatics, Agriculture Bioinformatics, Others), and By Geography (North America, Europe, Asia-Pacific, and Rest of the World)

In the application segment of the Bioinformatics market, Genomics is estimated to hold a higher share in the Bioinformatics market during the forecast period (2022-2027).

The growth can be attributed to the rising government bodies and private organizations across the globe that are readily investing in bioinformatics, rising use of bioinformatics for a variety of applications including determination of gene and protein functions, establishing revolutionary relationships and prediction of the three-dimensional shapes of the proteins.

Genomic technologies are helping to generate an extraordinary amount of information, unprecedented in the history of biology. Bioinformatics tends to address the specific needs in data acquisition, storage, analysis, and integration that genomics research generates.

The cost of genome sequencing has also come down, which is made possible due to a variety of bioinformatics tools and there has been an incessant rise in the speed of genome sequencing.

For instance, the Human Genome Project that had begun in the year 1990, and during January 2003, 1.5 billion bases were sequenced, owing to an increase in the usage of bioinformatics tools.

Hence, all the aforementioned factors will contribute to the growth of the genomics application in the Bioinformatics market.

North America is expected to dominate the overall Bioinformatics Market:

Among all the regions, North America is expected to account for the largest share in the Global Bioinformatics market. Growing demand for advanced technologies in Bioinformatics, rising prevalence of the COVID-19 pandemic, higher requirement of personalized medicine in this region, and the launch of new and innovative bioinformatics software will boost the growth of the bioinformatics market.

For instance, the rising cases of COVID 19 will lead to an increase in the growth of the bioinformatics market. For instance, as per the Centers for Disease Control and

Prevention 2022, in the year 2021, the United States had reported 79 million COVID-19 cases since the pandemic began. Also, the deaths that were related to COVID-19 in the United States had topped 9,60,000.

Also, the launch of various new bioinformatics platforms in the United States will aid in providing better and faster next-generation sequencing test results. For instance, on March 07, 2022, Arup had launched the new bioinformatics platform, Rio, a new world-class bioinformatics pipeline and analytics platform. It amplifies the ARUP's existing cloud computing capabilities to move data more efficiently and with greater accuracy to speed targeted test results to clinicians for analysis and improved medical decision-making for patients.

Therefore, all the above-mentioned factors are anticipated to propel the market for Bioinformatics in the United States region.

**Bioinformatics Market Key Players:**

Some of the key market players operating in the Bioinformatics market include Agilent Technologies, Biomax Informatics AG, DNANEXUS, INC., Thermo Fisher Scientific, Inc., Eurofins Scientific, QIAGEN N.V., Illumina Inc., NeoGenomics Laboratories, Rosalind Inc., Perkin Elmer, Inc., GENEWIZ, BGI Corporation, Waters Corporation, DNASTAR, Fios Genomics, Partek Incorporated, SOPHiA Genetics, Source Bioscience, Biomax Informatics AG, Seven Bridges Genomics Inc., and others.

**Recent Developmental Activities in the Bioinformatics Market:**

On March 02, 2022, BISC Global, a Bioinformatics, Biostatistics, and ML/AI consulting company is partnering with cropSeq bioinformatics, a company specialized in AgriGenomics consulting, to address the most pressing challenges in data-driven agriculture and plant research.

In February 2022, Bruker Corporation announced its TIMS DIA-NN software for the high-throughput, deep and unbiased 4D proteomics workflow.

**Key Takeaways from the Bioinformatics Market Report Study**

Market size analysis for current Bioinformatics market size (2020), and market forecast for 5 years (2022-2027).

The effect of the COVID-19 pandemic on this market is significant. To capture and analyze suitable indicators, our experts are closely watching the Bioinformatics market.

Top key product/services/technology developments, merger, acquisition, partnership, joint venture happened for last 3 years.

Key companies dominating the global Bioinformatics market.

Various opportunities available for the other competitor in the Bioinformatics market space.

What are the top-performing segments in 2021? How these segments will perform in 2026.

Which is the top-performing regions and countries in the current Bioinformatics market scenario?

Which are the regions and countries where companies should have concentrated on opportunities for Bioinformatics market growth in the coming future?

Target Audience who can be benefited from this Bioinformatics Market Report Study

Bioinformatics products providers

Research organizations and consulting companies

Bioinformatics-related organizations, associations, forums, and other alliances

Government and corporate offices

Start-up companies, venture capitalists, and private equity firms

Distributors and Traders dealing in Bioinformatics

Various End-users who want to know more about the Bioinformatics market and

latest technological developments in the Bioinformatics market.

Frequently Asked Questions for the Bioinformatics Market:

#### 1. What is Bioinformatics?

Bioinformatics is an interdisciplinary field that develops methods and software tools for understanding biological data, in particular when the data sets are large and complex.

#### 2. What is the market for Global Bioinformatics?

Global Bioinformatics Market was valued at USD 20.12 Billion in 2021, growing at a CAGR of 15.14% during the forecast period from 2022 to 2027 to reach USD 46.88 Billion by 2027.

#### 3. What are the drivers for Global Bioinformatics Market?

The Bioinformatics market is witnessing a positive market growth owing to the rising demand for both nucleic acid and protein sequencing, rising need for integrated data, technological innovation in product development, thereby contributing to the growth of the Bioinformatics market.

#### 4. Who are the key players operating in the Global Bioinformatics Market?

Some of the key market players operating in the Bioinformatics market include Agilent Technologies, Biomax Informatics AG, DNANEXUS, INC., Thermo Fisher Scientific, Inc., Eurofins Scientific, QIAGEN N.V., Illumina Inc., NeoGenomics Laboratories, Rosalind Inc., Perkin Elmer, Inc., GENEWIZ, BGI Corporation, Waters Corporation, DNASTAR, Fios Genomics, Partek Incorporated, SOPHiA Genetics, Source Bioscience, Biomax Informatics AG, Seven Bridges Genomics Inc., and others.

#### 5. Which region has the highest share in Bioinformatics Market?

North America is expected to hold the highest share in the revenue in the Bioinformatics market during the forecast period. Growing demand for advanced technologies in Bioinformatics, rising prevalence of the COVID-19 pandemic, higher requirement of personalized medicine in this region, and the launch of new and innovative bioinformatics software will boost the growth of the bioinformatics market in this region.

## Contents

### **1. BIOINFORMATICS MARKET REPORT INTRODUCTION**

### **2. BIOINFORMATICS MARKET EXECUTIVE SUMMARY**

- 2.1. Scope of the Study
- 2.2. Market at Glance
- 2.3. Competitive Assessment

### **3. REGULATORY ANALYSIS**

- 3.1. The United States
- 3.2. Europe
- 3.3. Japan
- 3.4. China

### **4. BIOINFORMATICS MARKET KEY FACTORS ANALYSIS**

- 4.1. Bioinformatics Market Drivers
  - 4.1.1. Rising Demand For Both Nucleic Acid and Protein Sequencing
  - 4.1.2. Rising Need For Integrated Data
  - 4.1.3. Technological Innovation in Product Development
- 4.2. Bioinformatics Market Restraints and Challenges
  - 4.2.1. Higher Costs Associated with the Bioinformatics Software and Services
  - 4.2.2. Dearth of Skilled Professionals
- 4.3. Bioinformatics Market Opportunities
  - 4.3.1. Growing Popularity of Bioinformatics in Different Application Areas such as Personalized Medicine
  - 4.3.2. Growing Pharmaceutical and Biotechnology Research & Development Expenditure

### **5. BIOINFORMATICS MARKET PORTER'S FIVE FORCES ANALYSIS**

- 5.1. Bargaining Power of Suppliers
- 5.2. Bargaining Power of Consumers
- 5.3. Threat of New Entrants
- 5.4. Threat of Substitutes
- 5.5. Competitive Rivalry



## **6. COVID-19 IMPACT ANALYSIS ON BIOINFORMATICS MARKET**

### **7. BIOINFORMATICS MARKET LAYOUT**

#### 7.1. By Type

7.1.1. Bioinformatics Products

7.1.2. Bioinformatics Services

#### 7.2. By Bioinformatics Products

7.2.1. Knowledge Management Tools

7.2.2. Bioinformatics Platforms

#### 7.3. By Application

7.3.1. Genomics

7.3.2. Proteomics

7.3.3. Transcriptomics

7.3.4. Others

#### 7.4. By Sector

7.4.1. Medical Bioinformatics

7.4.2. Animal Bioinformatics

7.4.3. Agriculture Bioinformatics

7.4.4. Others

#### 7.5. By Geography

7.5.1. North America

7.5.1.1. North America Bioinformatics Market, by Country

7.5.1.1.1. United States

7.5.1.1.2. Canada

7.5.1.1.3. Mexico

7.5.2. Europe

7.5.2.1. Europe Bioinformatics Market, by Country

7.5.2.1.1. France

7.5.2.1.2. Germany

7.5.2.1.3. United Kingdom

7.5.2.1.4. Italy

7.5.2.1.5. Spain

7.5.2.1.6. Russia

7.5.2.1.7. Rest of Europe

7.5.3. Asia-Pacific

7.5.3.1. Asia-Pacific Bioinformatics Market, by Country

7.5.3.1.1. China



- 7.5.3.1.2. Japan
- 7.5.3.1.3. India
- 7.5.3.1.4. Australia
- 7.5.3.1.5. South Korea
- 7.5.3.1.6. Rest of Asia Pacific
- 7.5.4. Rest of the World (RoW)
  - 7.5.4.1. RoW Bioinformatics Market, by Region
    - 7.5.4.1.1. Middle East
    - 7.5.4.1.2. Africa
    - 7.5.4.1.3. South America

## **8. BIOINFORMATICS MARKET COMPANY AND PRODUCT PROFILES**

- 8.1. Agilent Technologies
  - 8.1.1. Company Overview
  - 8.1.2. Company Snapshot
  - 8.1.3. Financial Overview
  - 8.1.4. Product Listing
  - 8.1.5. Entropy
- 8.2. Biomax Informatics AG
  - 8.2.1. Company Overview
  - 8.2.2. Company Snapshot
  - 8.2.3. Financial Overview
  - 8.2.4. Product Listing
  - 8.2.5. Entropy
- 8.3. DNANEXUS, INC.
  - 8.3.1. Company Overview
  - 8.3.2. Company Snapshot
  - 8.3.3. Financial Overview
  - 8.3.4. Product Listing
  - 8.3.5. Entropy
- 8.4. Thermo Fisher Scientific, Inc.
  - 8.4.1. Company Overview
  - 8.4.2. Company Snapshot
  - 8.4.3. Financial Overview
  - 8.4.4. Product Listing
  - 8.4.5. Entropy
- 8.5. Eurofins Scientific
  - 8.5.1. Company Overview

- 8.5.2. Company Snapshot
- 8.5.3. Financial Overview
- 8.5.4. Product Listing
- 8.5.5. Entropy
- 8.6. QIAGEN N.V.
  - 8.6.1. Company Overview
  - 8.6.2. Company Snapshot
  - 8.6.3. Financial Overview
  - 8.6.4. Product Listing
  - 8.6.5. Entropy
- 8.7. Illumina Inc.
  - 8.7.1. Company Overview
  - 8.7.2. Company Snapshot
  - 8.7.3. Financial Overview
  - 8.7.4. Product Listing
  - 8.7.5. Entropy
- 8.8. NeoGenomics Laboratories
  - 8.8.1. Company Overview
  - 8.8.2. Company Snapshot
  - 8.8.3. Financial Overview
  - 8.8.4. Product Listing
  - 8.8.5. Entropy
- 8.9. Rosalind Inc.
  - 8.9.1. Company Overview
  - 8.9.2. Company Snapshot
  - 8.9.3. Financial Overview
  - 8.9.4. Product Listing
  - 8.9.5. Entropy
- 8.10. Perkin Elmer, Inc.
  - 8.10.1. Company Overview
  - 8.10.2. Company Snapshot
  - 8.10.3. Financial Overview
  - 8.10.4. Product Listing
  - 8.10.5. Entropy
- 8.11. GENEWIZ
  - 8.11.1. Company Overview
  - 8.11.2. Company Snapshot
  - 8.11.3. Financial Overview
  - 8.11.4. Product Listing

- 8.11.5. Entropy
- 8.12. BGI Corporation
  - 8.12.1. Company Overview
  - 8.12.2. Company Snapshot
  - 8.12.3. Financial Overview
  - 8.12.4. Product Listing
  - 8.12.5. Entropy
- 8.13. Waters Corporation
  - 8.13.1. Company Overview
  - 8.13.2. Company Snapshot
  - 8.13.3. Financial Overview
  - 8.13.4. Product Listing
  - 8.13.5. Entropy
- 8.14. DNASTAR
  - 8.14.1. Company Overview
  - 8.14.2. Company Snapshot
  - 8.14.3. Financial Overview
  - 8.14.4. Product Listing
  - 8.14.5. Entropy
- 8.15. Fios Genomics
  - 8.15.1. Company Overview
  - 8.15.2. Company Snapshot
  - 8.15.3. Financial Overview
  - 8.15.4. Product Listing
  - 8.15.5. Entropy
- 8.16. Partek Incorporated
  - 8.16.1. Company Overview
  - 8.16.2. Company Snapshot
  - 8.16.3. Financial Overview
  - 8.16.4. Product Listing
  - 8.16.5. Entropy
- 8.17. SOPHiA Genetics
  - 8.17.1. Company Overview
  - 8.17.2. Company Snapshot
  - 8.17.3. Financial Overview
  - 8.17.4. Product Listing
  - 8.17.5. Entropy
- 8.18. Source Bioscience
  - 8.18.1. Company Overview

- 8.18.2. Company Snapshot
- 8.18.3. Financial Overview
- 8.18.4. Product Listing
- 8.18.5. Entropy
- 8.19. Biomax Informatics AG
  - 8.19.1. Company Overview
  - 8.19.2. Company Snapshot
  - 8.19.3. Financial Overview
  - 8.19.4. Product Listing
  - 8.19.5. Entropy
- 8.20. Seven Bridges Genomics Inc.
  - 8.20.1. Company Overview
  - 8.20.2. Company Snapshot
  - 8.20.3. Financial Overview
  - 8.20.4. Product Listing
  - 8.20.5. Entropy

## **9. KOL VIEWS**

## **10. PROJECT APPROACH**

## **11. ABOUT DELVEINSIGHT**

## **12. DISCLAIMER & CONTACT US**

## List Of Tables

### LIST OF TABLES

- Table 1: Competitive Analysis
- Table 2: COVID-19 Impact Analysis
- Table 3: Bioinformatics Market in Global (2019-2027)
- Table 4: Bioinformatics Market in Global by Type (2019-2027)
- Table 5: Bioinformatics Market in Global by Bioinformatics Products (2019-2027)
- Table 6: Bioinformatics Market in Global by Application (2019-2027)
- Table 7: Bioinformatics Market in Global by Sector (2019-2027)
- Table 8: Bioinformatics Market in Global by Geography (2019-2027)
- Table 9: Bioinformatics Market in North America (2019-2027)
- Table 10: Bioinformatics Market in North America by Country (2019-2027)
- Table 11: Bioinformatics Market in the US (2019-2027)
- Table 12: Bioinformatics Market in Canada (2019-2027)
- Table 13: Bioinformatics Market in Mexico (2019-2027)
- Table 14: Bioinformatics Market in Europe (2019-2027)
- Table 15: Bioinformatics Market in Europe by Country (2019-2027)
- Table 16: Bioinformatics Market in France (2019-2027)
- Table 17: Bioinformatics Market in Germany (2019-2027)
- Table 18: Bioinformatics Market in the United Kingdom (2019-2027)
- Table 19: Bioinformatics Market in Italy (2019-2027)
- Table 20: Bioinformatics Market in Spain (2019-2027)
- Table 21: Bioinformatics Market in Russia (2019-2027)
- Table 22: Bioinformatics Market in Rest of Europe (2019-2027)
- Table 23: Bioinformatics Market in APAC (2019-2027)
- Table 24: Bioinformatics Market in APAC by Country (2019-2027)
- Table 25: Bioinformatics Market in China (2019-2027)
- Table 26: Bioinformatics Market in Japan (2019-2027)
- Table 27: Bioinformatics Market in India (2019-2027)
- Table 28: Bioinformatics Market in Australia (2019-2027)
- Table 29: Bioinformatics Market in South Korea (2019-2027)
- Table 30: Bioinformatics Market in Rest of APAC (2019-2027)
- Table 31: Bioinformatics Market in Rest of World (2019-2027)
- Table 32: Bioinformatics Market in RoW by Region (2019-2027)
- Table 33: Bioinformatics Market in Middle East (2019-2027)
- Table 34: Bioinformatics Market in Africa (2019-2027)
- Table 35: Bioinformatics Market in South America (2019-2027)



## List Of Figures

### LIST OF FIGURES

- Figure 1: Competitive Analysis
- Figure 2: COVID-19 Impact Analysis
- Figure 3: Bioinformatics Market in Global (2019-2027)
- Figure 4: Bioinformatics Market in Global by Type (2019-2027)
- Figure 5: Bioinformatics Market in Global by Bioinformatics Products (2019-2027)
- Figure 6: Bioinformatics Market in Global by Application (2019-2027)
- Figure 7: Bioinformatics Market in Global by Sector (2019-2027)
- Figure 8: Bioinformatics Market in Global by Geography (2019-2027)
- Figure 9: Bioinformatics Market in North America (2019-2027)
- Figure 10: Bioinformatics Market in North America by Country (2019-2027)
- Figure 11: Bioinformatics Market in the US (2019-2027)
- Figure 12: Bioinformatics Market in Canada (2019-2027)
- Figure 13: Bioinformatics Market in Mexico (2019-2027)
- Figure 14: Bioinformatics Market in Europe (2019-2027)
- Figure 15: Bioinformatics Market in Europe by Country (2019-2027)
- Figure 16: Bioinformatics Market in France (2019-2027)
- Figure 17: Bioinformatics Market in Germany (2019-2027)
- Figure 18: Bioinformatics Market in the United Kingdom (2019-2027)
- Figure 19: Bioinformatics Market in Italy (2019-2027)
- Figure 20: Bioinformatics Market in Spain (2019-2027)
- Figure 21: Bioinformatics Market in Russia (2019-2027)
- Figure 22: Bioinformatics Market in Rest of Europe (2019-2027)
- Figure 23: Bioinformatics Market in APAC (2019-2027)
- Figure 24: Bioinformatics Market in APAC by Country (2019-2027)
- Figure 25: Bioinformatics Market in China (2019-2027)
- Figure 26: Bioinformatics Market in Japan (2019-2027)
- Figure 27: Bioinformatics Market in India (2019-2027)
- Figure 28: Bioinformatics Market in Australia (2019-2027)
- Figure 29: Bioinformatics Market in South Korea (2019-2027)
- Figure 30: Bioinformatics Market in Rest of APAC (2019-2027)
- Figure 31: Bioinformatics Market in Rest of World (2019-2027)
- Figure 32: Bioinformatics Market in RoW by Region (2019-2027)
- Figure 33: Bioinformatics Market in Middle East (2019-2027)
- Figure 34: Bioinformatics Market in Africa (2019-2027)
- Figure 35: Bioinformatics Market in South America (2019-2027)



Figure 36: Market Drivers

Figure 37: Market Barriers

Figure 38: Market Opportunities

Figure 39: PORTER'S Five Force Analysis

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