

Bioinformatics Market Size Forecast to USD 86.9 Billion by 2035 with a Focus on Genomic and Data-Driven Healthcare - TMR

Global Bioinformatics Market to Reach USD 86.9 Billion by 2035, Expanding at a CAGR of 13.3% – Insights from Transparency Market Research

WILMINGTON, DELAWARE , UNITED ARAB EMIRATES, October 14, 2025 /EINPresswire.com/ -- Bioinformatics Market Outlook 2035

The global [bioinformatics industry](#), valued at US\$ 22.2 billion in 2024, is poised for significant growth over the coming decade. Driven by rapid advancements in genomics,

proteomics, and computational biology, the market is expected to expand at a compound annual growth rate (CAGR) of 13.3% between 2025 and 2035. By the end of 2035, the bioinformatics market is projected to reach US\$ 86.9 billion, reflecting increasing demand for data-driven healthcare solutions, personalized medicine, and innovative drug discovery platforms. This

growth underscores the critical role of bioinformatics in shaping the future of life sciences and healthcare.



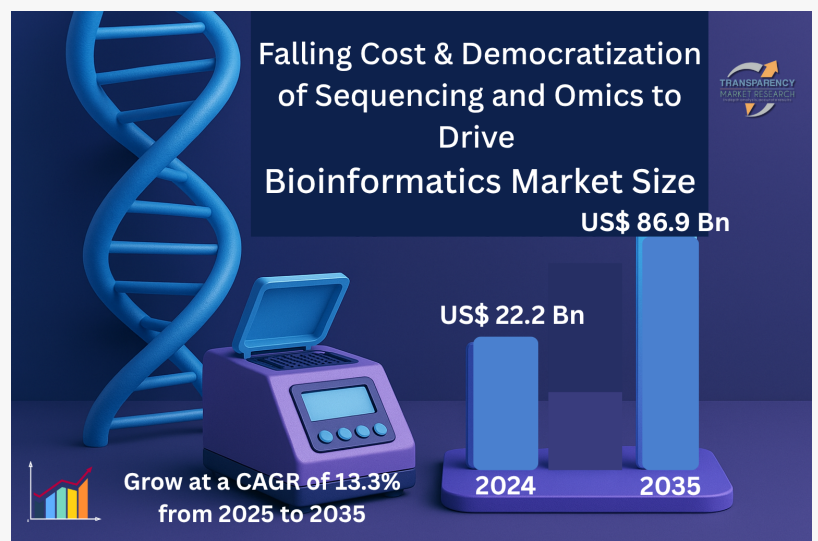
Bioinformatics Market Outlook 2035: USD 86.9 Billion Opportunity Driven by Precision Medicine and AI-Enabled Research"

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Analysts' Viewpoint on the Bioinformatics Market



Bioinformatics Market Outlook 2035

The bioinformatics market lies at the intersection of biology and data science, evolving from a niche research platform into a fundamental infrastructure for drug discovery, diagnostics, and precision medicine. Key growth drivers include decreasing sequencing costs, the widespread

adoption of next-generation sequencing (NGS) technologies in both clinical and research settings, and the rising demand for AI and machine learning tools that transform large omics datasets into actionable insights.

Innovation in the sector is accelerating, and leading life science platform providers—such as Illumina, Thermo Fisher, QIAGEN, and Agilent—have successfully implemented a strategy of bundling analytical software and cloud services with their instruments. This approach creates a comprehensive ecosystem for data analysis and utilization, facilitating faster platform adoption and reducing barriers to entry. Large platforms benefit from greater financial resources to build and maintain these integrated ecosystems, whereas independent analytics developers often face challenges due to limited funding and the high costs of developing complementary analytics tools.

Market Overview

Bioinformatics refers to the application of computational and statistical methods to understand biological data. It plays a critical role in genomics, proteomics, metabolomics, and systems biology, supporting drug discovery, disease research, and personalized healthcare.

The bioinformatics market is gaining momentum, driven by four key factors working in tandem: the widespread adoption of high-throughput sequencing and multi-omics assays, rising R&D and clinical investment in precision medicine, the growth of cloud-based and scalable analytics, and the integration of AI/ML tools to streamline genomic data interpretation and biomarker discovery.

These forces are broadening the scope of applications, from early-stage target identification to companion diagnostics and post-market surveillance, while shifting spending patterns from one-time analyses to recurring platform and service contracts. Increasing trends in outsourcing within pharma and biotech, combined with the need for faster insights in translational research, are encouraging organizations to leverage managed bioinformatics services and validated analytical pipelines. Altogether, these developments are creating a favorable landscape for both large-scale platform providers and specialized boutique analytics vendors.

Analysis of Key Players in the Bioinformatics Market

Leading companies in the bioinformatics industry are actively investing in technological innovation, strategic partnerships, and product portfolio expansion to maintain competitive advantage and drive growth in the rapidly evolving healthcare sector. These efforts are aimed at enhancing analytical capabilities, improving data interpretation, and supporting precision medicine initiatives.

Prominent players in the bioinformatics market include

- Thermo Fisher Scientific Inc.

- Agilent Technologies, Inc.
- Illumina, Inc.
- PerkinElmer Genomics
- Eurofins Genomics LLC
- NeoGenomics Laboratories
- QIAGEN
- DNASTAR
- Psomagen
- Microsynth AG
- MedGenome
- Nucleome Informatics Private Limited
- Symyx Technologies, Inc.
- IDBS
- SYNSIGHT
- Other Prominent players

Each of these companies is profiled in the market research report based on factors such as company overview, financial performance, business strategies, product portfolio, key business segments, and recent developments.

Key Developments in the Bioinformatics Market

- In October 2024, Clinical Microbiomics A/S, a Copenhagen-based leader in multi-omics, bioinformatics, and systems biology for the microbiome sector, announced a definitive agreement under which Microba Life Sciences Limited transferred its Research Service business unit to CMC.
- In September 2024, Almaden Genomics launched a new Data Management and Informatics Service business to enhance its bioinformatics and computational biology solutions, further strengthening its service offerings in the field.

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Key Growth Drivers

1. Precision Medicine Initiatives – Rising adoption of genomics-based diagnostics and personalized therapies.
2. AI & Cloud Integration – Enhancing data analytics and scalable bioinformatics solutions.
3. Genomics & Proteomics Expansion – High-throughput sequencing and omics research driving demand.
4. Pharmaceutical & Biotech Investments – Increasing R&D spending on drug discovery and clinical trials.

5. Regulatory & Healthcare Support – Government funding for genomics, bioinformatics research, and healthcare innovation.

Market Restraints & Challenges

- Data Privacy & Security Concerns – Managing sensitive patient and genomic data.
- High Cost of Advanced Platforms – Investment in cloud computing and AI analytics tools.
- Shortage of Skilled Professionals – Limited availability of bioinformatics expertise.
- Integration Challenges – Harmonizing datasets from multiple platforms and technologies.

Market Segmentation

By Component

- Software
- Services
- Hardware

By Application

- Drug Discovery & Development
- Genomics & Proteomics Research
- Clinical & Precision Medicine
- Agricultural & Environmental Research
- Others

By End User

- Pharmaceutical & Biotechnology Companies
- Hospitals & Diagnostic Laboratories
- Academic & Research Institutes
- Contract Research Organizations (CROs)

By Region

- North America
- Europe
- Asia-Pacific
- Latin America
- Middle East & Africa

Market Trends & Innovations

1. AI-Driven Bioinformatics Platforms – Automating analysis of large-scale genomic data.
2. Cloud-Based Solutions – Facilitating collaboration and scalable data storage.
3. Personalized Medicine Focus – Enabling patient-specific therapeutic strategies.
4. Integration with Wearables & Health Data – Providing holistic health analytics.

5. Open-Source & Collaborative Research – Encouraging data sharing and platform interoperability.

Future Outlook

The bioinformatics market is projected to surpass US\$ 86.9 Bn by 2035, driven by AI integration, precision medicine, and genomics research. As the demand for data-driven healthcare and advanced life sciences solutions continues to rise, bioinformatics will remain central to global healthcare innovation.

Key future trends include:

- Expanded adoption of AI-assisted drug discovery and genomics analytics.
- Growth of cloud-based bioinformatics platforms in research and clinical settings.
- Increased use in personalized medicine, diagnostics, and biomarker development.
- Widening applications in agriculture, environmental genomics, and synthetic biology.

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Important FAQs with Answers

Q1. What was the global bioinformatics market size in 2024?

A1. The market was valued at US\$ 22.2 Bn in 2024.

Q2. What is the projected market size by 2035?

A2. The market is expected to reach US\$ 86.9 Bn by 2035.

Q3. What is the CAGR for 2025–2035?

A3. The industry is projected to grow at a CAGR of 13.3%.

Q4. What are the major applications of bioinformatics?

A4. Drug discovery, genomics & proteomics research, clinical & precision medicine, agricultural & environmental research.

Q5. Who are the key players in the market?

A5. Illumina, Thermo Fisher Scientific, QIAGEN, Agilent Technologies, PerkinElmer, Bio-Rad Laboratories, SOPHiA GENETICS, and Oracle Corporation.

Q6. What trends will shape the future of the industry?

A6. AI-driven analytics, cloud-based bioinformatics platforms, personalized medicine, and collaborative open-source research will define future growth.

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