

South Korea Bioinformatics Market Size, Share, Trends and Forecast by Product and Services, Application, End Use Sector, and Region, 2026-2034

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Abstracts

The South Korea bioinformatics market size reached USD 295.8 Million in 2025. Looking forward, IMARC Group expects the market to reach USD 760.7 Million by 2034, exhibiting a growth rate (CAGR) of 10.74% during 2026-2034. The bioinformatics market in South Korea is driven by the aging population, which is encouraging advancements in genomic research to tackle age-related diseases. The need for personalized medicine, fueled by genetic analysis, and the growing focus on tailored therapies are contributing to the expansion of the South Korea bioinformatics market share.

SOUTH KOREA BIOINFORMATICS MARKET TRENDS:

Advances in Genomic Research and Personalized Medicine

As investments in sequencing technologies rise and strong government initiatives emerge, genomics is taking a center stage in South Korea's healthcare and biotechnology industries. Personalized medicine, which customizes treatments according to a person's genetic profile, is transforming the healthcare field, driving the need for more sophisticated, data-centric solutions. Bioinformatics is essential for processing extensive genetic data, discovering biomarkers, and enabling more accurate prediction, diagnosis, and treatment of diseases. With the progress of genomic research, bioinformatics tools are enhancing data processing and analysis abilities, accelerating the creation of personalized treatments. The merging of genomics and bioinformatics is contributing to the market growth, with healthcare providers and research organizations adopting these technologies to enhance patient results. A notable illustration of this trend is the formation of Novogene Korea Limited in Seoul in

2025. By providing localized multi-omics services, such as genomics, transcriptomics, and proteomics, Novogene enhances its partnership with South Korea's dynamic biotech and biomedical industries. This initiative not only underscores the country's focus on genomic research but also illustrates the growing demand for integrated bioinformatics services to support the expanding personalized medicine landscape.

Increased Focus on Aging Population and Age-Related Diseases

The swiftly aging population of South Korea is a major factor strengthening the South Korea bioinformatics market growth. According to new figures published by the Ministry of the Interior and Safety in 2024, the population of individuals aged 65 and older is 10.24 million, representing 20% of South Korea's total population of 51 million. This demographic transition is catalyzing the demand for creative strategies in the prevention, diagnosis, and treatment of age-associated illnesses like Alzheimer's, Parkinson's, and other neurodegenerative disorders. Bioinformatics tools are becoming essential for comprehending the genetic and molecular foundations of these diseases, allowing researchers to discover biomarkers, genetic vulnerabilities, and possible therapeutic targets. With the rise of the aging population, there is a higher dependence on bioinformatics platforms to process large volumes of genomic data, enabling the prediction of these conditions and the formulation of tailored care strategies. For instance, bioinformatics is essential in speeding up the development of drugs designed for older adults, enhancing clinical trials for age-related illnesses, and facilitating more accurate therapies. The incorporation of bioinformatics into aging-related studies not only improves healthcare results but also speeds up drug development and clinical research, positioning bioinformatics as an essential resource in tackling the healthcare issues presented by South Korea's aging population. As a result, the growing geriatric population is positively influencing the bioinformatics industry, with a heightened emphasis on personalized treatments and targeted interventions for age-related conditions.

SOUTH KOREA BIOINFORMATICS MARKET SEGMENTATION:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the country and regional levels for 2026-2034. Our report has categorized the market based on product and services, application, and end use sector.

Product and Services Insights:

Knowledge Management Tools

Generalized Knowledge Management Tools

Specialized Knowledge Management Tools

Bioinformatics Platforms

Surgical Simulation Platforms

Sequence Analysis, Alignment and Manipulation Platforms

Structural and Functional Analysis Platforms

Others

Bioinformatics Services

Data Analysis Services

Database Management Services

Others

The report has provided a detailed breakup and analysis of the market based on the product and services. This includes knowledge management tools (generalized knowledge management tools and specialized knowledge management tools), bioinformatics platforms (surgical simulation platforms, sequence analysis, alignment and manipulation platforms, structural and functional analysis platforms, and others), and bioinformatics services (data analysis services, database management services, and others).

Application Insights:

Genomics

Chemoinformatics and Drug Design

Proteomics

Transcriptomics

Metabolomics

A detailed breakup and analysis of the market based on the application have also been provided in the report. This includes genomics, chemoinformatics and drug design, proteomics, transcriptomics, metabolomics, and others.

End Use Sector Insights:

Medical Biotechnology

Academics

Animal Biotechnology

Agricultural Biotechnology

Environmental Biotechnology

Forensic Biotechnology

A detailed breakup and analysis of the market based on the end use sector have also been provided in the report. This includes medical biotechnology, academics, animal biotechnology, agricultural biotechnology, environmental biotechnology, forensic biotechnology, and others.

Regional Insights:

Seoul Capital Area

Yeongnam (Southeastern Region)

Honam (Southwestern Region)

Hoseo (Central Region)

The report has also provided a comprehensive analysis of all the major regional markets, which include Seoul Capital Area, Yeongnam (Southeastern Region), Honam (Southwestern Region), Hoseo (Central Region), and others.

COMPETITIVE LANDSCAPE:

The market research report has also provided a comprehensive analysis of the competitive landscape. Competitive analysis such as market structure, key player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided.

KEY QUESTIONS ANSWERED IN THIS REPORT

How has the South Korea bioinformatics market performed so far and how will it perform in the coming years?

What is the breakup of the South Korea bioinformatics market on the basis of product and services?

What is the breakup of the South Korea bioinformatics market on the basis of application?

What is the breakup of the South Korea bioinformatics market on the basis of end use sector?

What is the breakup of the South Korea bioinformatics market on the basis of region?

What are the various stages in the value chain of the South Korea bioinformatics market?

What are the key driving factors and challenges in the South Korea bioinformatics market?

What is the structure of the South Korea bioinformatics market and who are the key players?

What is the degree of competition in the South Korea bioinformatics market?

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