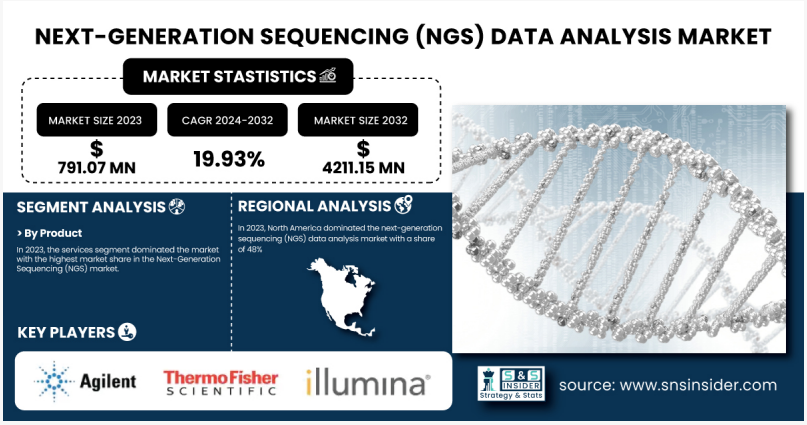
Next-Generation Sequencing (NGS) Data Analysis Market to Reach USD 4211.15 Million by 2032 | SNS Insider

Rapid Advancements in Genomic Research and Rising Demand for Precision Medicine Propel Market Growth



Next-Generation Sequencing (NGS) Data Analysis Market

AUSTIN, TX, UNITED STATES, February 21, 2025 /EINPresswire.com/ -- According to Research by SNS Insider, The Next-Generation Sequencing (NGS) Data Analysis Market, valued at USD 791.07 million in 2023, is projected to reach USD 4211.15 million by 2032, expanding at a CAGR of 19.93% from 2024-2032, according to SNS Insider.

The market is experiencing significant growth, driven by the increasing demand for advanced genomic data analysis tools across various sectors, including oncology, genetics, and drug development. NGS technology enables high-throughput sequencing, providing unparalleled speed and accuracy in analyzing DNA and RNA. This is revolutionizing personalized medicine, diagnostics, and molecular biology.

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Key Players in Next-generation Sequencing (NGS) Data Analysis Market
- Illumina, Inc. (BaseSpace Sequence Hub, DRAGEN Bio-IT Platform)
- Thermo Fisher Scientific, Inc. (Ion Reporter Software, Oncomine Reporter)
- Qiagen N.V. (CLC Genomics Workbench, Ingenuity Pathway Analysis (IPA))
- Agilent Technologies (Alissa Interpret, GeneSpring GX
- F. Hoffmann-La Roche Ltd. (AVENIO Oncology Analysis Software, SeqCap EZ Analysis Software)
- 10x Genomics, Inc. (Cell Ranger, Loupe Browser)
- PacBio (Pacific Biosciences of California, Inc.) (SMRT Link, Circular Consensus Sequencing (CCS) Analysis)
- Oxford Nanopore Technologies (Epi2Me Analysis Platform, MinKNOW Software)
- Bio-Rad Laboratories, Inc. (QX Manager Software, CFX Maestro Software)

- PerkinElmer, Inc. (NEXTFLEX Data Analysis Tools, Signals Notebook
- Becton, Dickinson, and Company (BD Biosciences) (FlowJo Analysis Software, FACSDiva Software)
- DNAnexus, Inc. (DNAnexus Apollo, Platform for Precision Health)
- Partek Incorporated (Partek Flow, Partek Genomics Suite)
- Seven Bridges Genomics (Seven Bridges Platform, SB Cloud)
- GeneDx (Variant Analysis Suite, Rare Disease Analysis Tools)
- Strand Life Sciences (Strand NGS, StrandOmics)
- BlueBee (Illumina subsidiary) (BlueBee Platform, BlueBase Analytics)
- Genialis (Expressions Analysis Suite, Smart RNA-Seq Analysis)
- Deep Genomics (AI-Driven NGS Data Analysis Platform, Genome Annotation Tools)
- Illumina-owned Edico Genome (DRAGEN Variant Caller, DRAGEN RNA Pipeline)

By Product, in 2023, the services segment dominated the market, accounting for the largest market share.

The expanding technical complexity of analyzing NGS data and the intensifying trend to outsource bioinformatics services made this dominance more likely. Both researchers and healthcare institutions tend to rely on professional service providers to process and interpret large genomic datasets cost-effectively.

The NGS software commercial segment will be growing at the highest rate in the forecast period. The need for sophisticated AI-based bioinformatics solutions, cloud-based solutions, and easy-to-use NGS software offerings is fueling high adoption. This helps interpret genomic data quickly and accurately, finding applications in clinical diagnostics and drug development.

By Read Length, the short-read sequencing segment held a 70% market share in 2023, making it the leading category in the NGS data analysis market.

Short-read sequencing is the choice because it is cost-effective, highly accurate, and extensively applied in clinical diagnostics, cancer genomics, and plant agriculture research. Its capability to produce high-throughput sequencing data at lower costs has enhanced its market standing.

The very long-read sequencing segment is anticipated to expand at the highest growth rate of 26% through the forecast period. The growing demand for accurate structural variant detection, whole genome assembly, and epigenomic research are fueling adoption. Advances in nanopore and single-molecule sequencing further increase its potential, positioning it as a major growth segment in the market.

By End Use, in 2023, the academic research segment held the largest market share at 52%, reflecting its strong presence in genomics and biomedical research.

The broad adoption of NGS technologies across universities and research institutions, supported

by government support and academic partnerships, has driven this prevalence. NGS data analysis is applied in various applications by institutions, such as evolutionary biology, population genetics, and personalized medicine.

The biopharma and biotechnology segment is expected to witness the most rapid growth. Rising investments in drug discovery, biomarker identification, and companion diagnostics are driving the growth of NGS data analysis in the sector. Genomic knowledge is being utilized by pharmaceutical firms to launch precision medicine and improve targeted therapies, which is fueling the segment's fast growth.

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Regional Analysis, in 2023, North America led the Next-Generation Sequencing (NGS) Data Analysis Market, capturing 48% of the global market share.

The dominance of the region is due to the availability of leading NGS technology vendors, large government expenditure on genomic studies, and mature healthcare infrastructure. The growing application of NGS for clinical diagnostics, oncology, and genetic diseases also reinforces the market dominance of North America.

The Asia-Pacific market is the most rapidly expanding market for NGS data analysis, which is fueled by increasing healthcare investments, growing genomic research programs, and the adoption of personalized medicine. China, India, and Japan are leading countries that are experiencing growth in the applications of NGS, which is backed by government-initiated genome projects and rising biotech start-ups engaged in precision medicine and agricultural genomics. With the more widespread availability of NGS technology, the Asia-Pacific market is predicted to be subject to rapid growth in the following years.

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