

**Next Generation Sequencing Services Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Service (Human Genome Sequencing Services, Single Cell Sequencing Services, Microbial Genome-based Sequencing Services, Gene Regulation Services, Others), By Workflow (Pre-Sequencing, Sequencing, Data Analysis), By End User (Hospitals & Clinics, Academic & Research Institutions, Pharmaceutical & Biotechnology Companies, Others), By Region and Competition, 2020-2030F**

Market Report | 2025-06-30 | 180 pages | TechSci Research

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**Report description:**

Market Overview

The Global Next Generation Sequencing (NGS) Services Market was valued at USD 5.97 billion in 2024 and is projected to reach USD 20.59 billion by 2030, growing at a CAGR of 22.92% during the forecast period. This growth is driven by rapid advancements in genomic technologies, rising demand for precision medicine, expanding applications of NGS in clinical research, and the increasing prevalence of genetic disorders. Technological improvements have led to faster and more cost-effective sequencing platforms, making NGS more accessible to researchers and clinicians. The growing focus on personalized treatment approaches based on genetic profiling and the integration of NGS in diagnostics and clinical trials are further boosting demand across healthcare and life science sectors.

Key Market Drivers

Rising Demand for Personalized Medicine

The rising interest in personalized medicine is a major catalyst for the expansion of the NGS services market. Personalized

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medicine leverages genetic data to tailor medical care to individual patients, improving treatment effectiveness and disease management. NGS facilitates in-depth genomic analysis, helping identify mutations that influence disease risk and therapeutic responses.

Governments around the world are actively supporting this shift through large-scale initiatives. For instance, the U.S. National Institutes of Health's All of Us Research Program and the European Union's Horizon 2020 initiative have allocated substantial funding toward genomics research to promote personalized healthcare. These efforts underscore the central role of NGS in the evolving landscape of precision medicine.

#### Key Market Challenges

##### High Costs and Infrastructure Requirements

Despite the reduction in sequencing costs per genome, the overall financial burden of establishing and running NGS operations remains substantial. Setting up NGS laboratories demands significant investments in high-end equipment, computational systems, and trained personnel. Additionally, recurring costs for consumables, system maintenance, and data storage present ongoing challenges, particularly for facilities in developing nations.

The complexity of NGS workflows also requires continuous training and expertise, adding to operational overheads. These financial and technical barriers hinder the broader integration of NGS in low-resource settings. Although global programs-such as the Africa Pathogen Genomics Initiative-are working to expand infrastructure, disparities in access to NGS services persist.

#### Key Market Trends

##### Integration of Artificial Intelligence in NGS Data Analysis

The adoption of artificial intelligence (AI) and machine learning (ML) is emerging as a transformative trend in NGS services. Given the vast and complex nature of sequencing data, AI tools are increasingly essential for extracting meaningful insights. These technologies enhance pattern recognition, data interpretation, and predictive modeling in both clinical and research contexts. In healthcare, AI-driven analysis supports accurate genetic diagnoses by identifying disease-associated variants and forecasting treatment responses. In research, AI facilitates discovery of novel biomarkers and therapeutic targets. Government-backed programs, such as those led by the U.S. NIH, are investing in AI-genomics integration, recognizing its potential to accelerate progress in personalized medicine and genomics-based research.

#### Key Market Players

- Quest Diagnostics Inc.
- Applied Biological Materials, Inc.
- Novogene Co, Ltd.
- Azenta Life Sciences (GENEWIZ)
- NanoString Technologies, Inc.
- Illumina, Inc.
- PacBio, Inc.
- Gene by Gene Ltd
- Lucigen Corporation
- ARUP Laboratories

#### Report Scope:

In this report, the Global Next Generation Sequencing Services Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

##### - Next Generation Sequencing Services Market, By Service:

- ?o Human Genome Sequencing Services
- ?o Single Cell Sequencing Services
- ?o Microbial Genome-based Sequencing Services
- ?o Gene Regulation Services
- ?o Others

##### - Next Generation Sequencing Services Market, By Workflow:

- ?o Pre-Sequencing

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?o Sequencing

?o Data Analysis

- Next Generation Sequencing Services Market, By End User:

?o Hospitals & Clinics

?o Academic & Research Institutions

?o Pharmaceutical & Biotechnology Companies

?o Others

- Next Generation Sequencing Services Market, By Region:

?o North America

??? United States

??? Mexico

??? Canada

?o Europe

??? France

??? Germany

??? United Kingdom

??? Italy

??? Spain

?o Asia-Pacific

??? China

??? India

??? South Korea

??? Japan

??? Australia

?o South America

??? Brazil

??? Argentina

??? Colombia

?o Middle East and Africa

??? South Africa

??? Saudi Arabia

??? UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Next Generation Sequencing Services Market.

Available Customizations:

Global Next Generation Sequencing Services Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

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