

Global Forensic Technology Market Size study, by Technology (Spectroscopy, Next Generation Sequencing, Biosensor, Polymerase Chain Reaction, Capillary Electrophoresis, Automated Liquid Handling Technology, High Speed Ballistic Photography, Others), by Component (Product, Service), by Sample Type (Blood, Hair, Skin, Tissue, Metal, Others), by Application (Judicial and Law Enforcement, Pharmacogenetics, Biodefence) and Regional Forecasts 2022-2032

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Abstracts

Global Forensic Technology Market is valued approximately at USD 14.89 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 9.91% over the forecast period 2024-2032. Forensic technology involves the application of scientific methods and techniques to solve crimes and ensure justice. It includes DNA analysis, fingerprinting, digital forensics, and the examination of physical evidence. These technologies help law enforcement agencies identify suspects, reconstruct crime scenes, and gather critical evidence for court cases. Advancements in forensic technology have significantly improved the accuracy and efficiency of criminal investigations, leading to higher conviction rates and the exoneration of innocent individuals. This field continuously evolves, integrating new technologies to enhance its effectiveness.

The Forensic Technology Market expansion is primarily driven by the increasing crime rates and favorable initiatives by several government and law enforcement agencies, which underscore the growing demand for advanced forensic technologies to aid in

efficient case resolutions. As crime rates continue to escalate, there is a burgeoning need for sophisticated forensic tools that can assist law enforcement agencies in solving cases more effectively. Governments worldwide are implementing supportive measures, including funding and policy frameworks, to bolster the adoption of these technologies. Furthermore, continuous technological advancements are propelling the market forward, making forensic analysis more precise and accessible. However, the high costs associated with forensic equipment, software, and specialized training, along with a lack of skilled workforce, pose significant challenges to market growth.

The key regions considered for the Forensic Technology Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, the North American forensic technology market dominated the market attributed to the rising prevalence of criminal cases in the region, which has spurred a surge in forensic investigations. The law enforcement agencies and private enterprises are increasingly adopting forensic tools and services across various sectors, including healthcare. The region's advanced healthcare infrastructure and continuous advancements in forensic methodologies have significantly enhanced the efficiency and accuracy of forensic analysis.

Major market players included in this report are:

Bio-Rad Laboratories, Inc
Agilent Technologies
Shimadzu Scientific Instruments
Thermo Fisher Scientific, Inc.
Leica Microsystems
GE Healthcare
Ultra Electronics Forensic Technology Inc.
HORIBA, Ltd.
Projectina
Zentek Digital Investigations Ltd

The detailed segments and sub-segment of the market are explained below:

By Technology

- Spectroscopy
- Next Generation Sequencing (NGS)
- Biosensor (fingerprint)
- Polymerase Chain Reaction (PCR)
- Capillary Electrophoresis (CE)
- Automated Liquid Handling Technology
- High Speed Ballistic Photography
- Other technologies

By Component

- Product
- Service

By Sample Type

- Blood
- Hair
- Skin
- Tissue sample
- Metal
- Other sample types

By Application

- Judicial and law enforcement
- Pharmacogenetics
- Biodefence

By Region:

North America

- U.S.
- Canada

Europe

- UK
- Germany
- France
- Spain
- Italy
- ROE

Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- RoAPAC

Latin America

- Brazil
- Mexico
- RoLA

Middle East & Africa

- Saudi Arabia
- South Africa

- RoMEA

Years considered for the study are as follows:

- Historical year – 2022
- Base year – 2023
- Forecast period – 2024 to 2032

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2022 to 2032.
- Annualized revenues and regional level analysis for each market segment.
- Detailed analysis of geographical landscape with Country level analysis of major regions.
- Competitive landscape with information on major players in the market.
- Analysis of key business strategies and recommendations on future market approach.
- Analysis of competitive structure of the market.
- Demand side and supply side analysis of the market

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