

North America Lab Automation Market Size and Forecast (2021 - 2031), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Type (Equipment and Software), Equipment (Automated Workstations, Liquid Handling Systems, Robotic Systems, Microplate Readers, Automated Storage and Retrieval Systems (ASRS), and Other Equipment), Application (Clinical Diagnostics, Drug Discovery, Proteomics Solutions, Genomics Solutions, and Other Applications), and End User (Hospitals and Diagnostic Centers, Pharmaceutical Companies, Contract Research Organizations (CROs), and Educational and Research Institutions)

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Abstracts

The North America Lab Automation Market is projected to grow significantly, reaching an estimated US\$ 4,416.1 million by 2031, up from US\$ 3,002.8 million in 2024, reflecting a compound annual growth rate (CAGR) of 5.9% from 2025 to 2031. This growth is driven by the increasing demand for advanced diagnostic solutions and automated laboratory infrastructure as the healthcare landscape in North America continues to evolve.

In response to these market dynamics, Danaher Corporation, a prominent player in science and technology innovation, is enhancing its diagnostic capabilities to better serve clinical and research laboratories. In July 2024, Danaher announced the

establishment of two laboratories certified under the Clinical Laboratory Improvement Amendments (CLIA) and the College of American Pathologists (CAP). These labs are designed to expedite the development of Companion Diagnostics (CDx) and Complementary Diagnostics (CoDx), which are essential for advancing precision medicine. By integrating advanced automation technologies, data analytics, and high-throughput workflows, Danaher aims to improve the speed, quality, and regulatory readiness of its diagnostic offerings, thereby reinforcing its position in the personalized healthcare sector.

As healthcare systems across North America invest in digital transformation and precision diagnostics, there is a growing need for integrated automation platforms capable of managing large volumes of complex data efficiently and accurately. Danaher's investment in CLIA- and CAP-certified labs is a strategic move that aligns with this industry trend, positioning the company to meet the rising expectations for speed, compliance, and innovation in diagnostic development. This alignment not only expands Danaher's operational capabilities but also shapes the future of diagnostics in the region.

The North America Lab Automation Market can be segmented by type, equipment, application, and end user. By type, the market is divided into Equipment and Software, with Equipment holding the largest market share in 2024. Within the Equipment category, Automated Workstations, Liquid Handling Systems, Robotic Systems, Microplate Readers, and Automated Storage and Retrieval Systems (ASRS) are key segments, with Automated Workstations leading the market. In terms of application, Clinical Diagnostics is the largest segment, followed by Drug Discovery, Proteomics Solutions, and Genomics Solutions. The end-user segmentation includes Hospitals and Diagnostic Centers, Pharmaceutical Companies, Contract Research Organizations (CROs), and Educational and Research Institutions, with Hospitals and Diagnostic Centers holding the largest share.

Recent technological advancements are transforming laboratory workflows, as evidenced by the launch of the Sapio Scientific Data Cloud by Sapio Sciences on October 2, 2023. This next-generation scientific data management solution aims to help researchers and organizations maximize the potential of their research, development, and clinical data. The platform unifies Laboratory Information Management Systems (LIMS), Electronic Lab Notebooks (ELN), and Scientific Data Management Systems (SDMS), providing laboratories with enhanced flexibility, scalability, and efficiency—key attributes in modern automated environments.

Additionally, on July 15, 2025, MilliporeSigma, the U.S. and Canada Life Science business of Merck KGaA, announced the launch of its Automated Assay Workstation (AAW), powered by Opentrons. This workstation is designed to automate routine assays that were previously labor-intensive, thereby reducing manual handling and improving reproducibility across experimental setups. This launch is part of MilliporeSigma's collaboration with Opentrons, aimed at optimizing laboratory workflows through intelligent and cost-effective automation solutions. These developments highlight a broader industry trend where the integration of advanced technologies, including AI-powered analytics and modular automation platforms, is transforming traditional laboratories into highly efficient, data-centric ecosystems.

Geographically, the North America Lab Automation Market is segmented into the United States, Canada, and Mexico, with the United States holding the largest market share in 2024. Laboratories in the U.S., ranging from large hospital networks to independent clinical labs and biopharmaceutical R&D centers, face increasing pressure to enhance efficiency, minimize human error, and manage growing volumes of complex testing. This demand has accelerated the adoption of automated technologies such as liquid handlers, robotic sample processors, and AI-integrated LIMS. Major players like Danaher Corporation, Thermo Fisher Scientific, and PerkinElmer are pivotal in shaping the market landscape. Danaher's recent establishment of CLIA- and CAP-certified labs underscores the growing reliance on automation to drive diagnostic innovation, particularly in Companion Diagnostics (CDx). Furthermore, emerging startups and mid-sized automation companies are introducing niche solutions that address interoperability, sustainability, and AI-driven decision support, enriching the U.S. market ecosystem.

In summary, the North America Lab Automation Market is poised for substantial growth, driven by technological advancements and the increasing need for efficient, automated laboratory solutions across various applications and end users.

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