

# Lab Automation Global Market – Forecast To 2020

<https://marketpublishers.com/r/L20D12E7D36EN.html>

Date: April 2015

Pages: 315

Price: US\$ 4,500.00 (Single User License)

ID: L20D12E7D36EN

## Abstracts

From ages, across industries, laboratories are an integral part of manufacturing and scientific research organizations. The main goal of research and diagnostic labs is to provide high quality and reliable experimental information that fulfills the industry needs. The constant use of manual and isolated systems hampers the data quality during transferring process. Now-a-days, advancement in technologies and increasing pressure to deliver results has led to the use of automated systems in laboratories. Automated systems are being adapted in huge scale because of its accuracy, advanced data management capacity and reduced repetitiveness.

At present, scientific research areas are making use of automated systems which are in need of secure informatics platform where experimental data can be stored and exchanged flexibly. Indeed, ELN support this huge requirement in automated industry. For instance, Seattle Genetics E-Workbook supports broad range of scientific discipline by securing and managing research data.

The global Laboratory Automation market is valued to be \$3,456 million in 2014 and poised to grow at a CAGR of 6.4% to reach \$5,052 million by 2020. The laboratory automation market is classified based on technology, process (hardware and software), application, end users and geography. The lab automation by technology is further segmented into total laboratory automation and modular automation (Pre-analytical automation systems, Post-analytical automation systems, Unit automation solutions). The laboratory automation market by end users is divided into academic and research institutes, hospitals and laboratory diagnostics, biotech and pharmaceutical companies and other end users, which include nonprofit organizations and commercial labs.

The laboratory automation market by process divided into hardware and software systems. The hardware segment further includes automated liquid handling systems, compound management, plate readers, and robotic systems which includes sample

transportation systems, specimen handling systems. The software segment consists of Laboratory Information Management Systems (LIMS), Electronic Laboratory Notebooks (ELN), Laboratory Executive Systems (LES), Chromatography Data Management System (CDMS) and Scientific Data Management Systems (SDMS).

The application of lab automation market is classified into clinical diagnostic laboratories, drug discovery and development, bioresearch, forensic and other applications. Further, the automation market is classified by geographical regions into North America, Europe, Asia-pacific and Rest of the World.

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## **LIST OF ACRONYMS**

Acronym Expanded form

ACLA American Clinical Laboratory Association  
AIA Automated Imaging Association  
AISDC Automated Imaging Screening and Data Capture  
AKI Acute Kidney Injury  
ALA Association for Laboratory Automation  
AMH Anti-Mullerian Hormone  
AMI Academy of Molecular Imaging  
ASRS Automated Storage and Retrieval Systems  
BIS Bureau of Indian Standards  
BRET Bioluminescence Resonance Energy Transfer  
CAP College of American Pathologists  
CAP Clean Air Protection  
CCD Continuity of Care Document  
CDA Clinical Documentation Architecture  
CDMS Chromatography Data Management Systems  
CDS Chromatography Data Systems  
CDSCO Central Drugs Standard Control Organization  
CE Conformance Européenne  
CFDA China Food and Drug Administration  
CLIA Clinical Laboratory Improvement Amendments  
CMO Contract Manufacturing Organizations  
CMS Centers for Medicare and Medicaid Services  
CMV Cytomegalovirus  
CPA Card Processing Automation  
CRISPR Clustered Regulatory Interspaced Short Palindromic Repeats  
CRO Contract research organizations



DEEDS Data Elements for Emergency Department Systems  
DS Discipline Specific  
ELISA Enzyme-Linked Immunosorbent Assay  
ELN Electronic Laboratory Notebooks  
ERP Enterprises Resource Planning software  
FBI Federal Bureau of Investigation  
FFPE Formalin-Fixed Paraffin Embedded  
FP Fluorescence Polarization  
FRET Fluorescence Resonance Energy Transfer  
FTE Full-time employees  
GDH Glutamate dehydrogenase  
GI Gastrointestine  
GMPs Good Manufacturing Practices  
GSK GlaxoSmithKline  
GUI Graphical User Interface  
HbA1c Hemoglobin A1c  
HCS High Content Screening  
hESCs Human Embryonic Stem Cells  
hiPSC Human Induced Pluripotent Stem Cells  
HLA Human Leukocyte Antigen  
HPLC High-Performance Liquid Chromatography  
HRAM High Resolution Accurate Mass  
IDE Investigational Device Exemption  
IHC Immune-Histochemistry  
ISA Instrumentation Systems and Automation Society  
ISH In-situ Hybridisation  
IVD In-vitro Diagnostic  
JCAHO Joint Commission Accrediting Hospital Organization  
JMDN Japanese Medical Device Nomenclature  
JPAL Japanese Pharmaceutical Affairs Law  
JSCLA Japan Society for Clinical Laboratory Automation  
LA Laboratory Automation  
LC Liquid Chromatography  
LES Laboratory Executive Systems  
LIMS Laboratory Information Management System  
LIS Laboratory Information System  
LOINC Logical Observation Identifiers Names and Codes  
MBP Methods Based Programming  
MCAA Measurement Control and Automation Association

MDS Minimum Data Set  
MS Mass Spectrometry  
NABL National Accreditation Board for Testing and Calibration Laboratories  
NEB New England Biolabs  
NGS Next Generation Sequencing  
NSCLC Non-Small Cell Lung Cancer  
NYSCF York Stem Cell Foundation Research Institute  
OCR Optical Character Recognition  
OEM Original Equipment Manufacturers  
PLN Paperbound Laboratory Notebook  
PMA Pre Market Approval  
PMDA Pharmaceutical and Medical Devices Agency  
POC Point of Care  
QC Quality control  
QSRs Quality System Regulations  
RCB Registered Certified Body  
RoW Rest of the World  
SDMS Scientific Data Management Systems  
SE Substantial Equivalent  
SiLA Standardization in Lab Automation  
SLAS Society for Laboratory Automation and Screening  
SNOMED CT Systemized Nomenclature of Medicine—Clinical Terms  
SNP Single Nucleotide Polymorphism  
SOP Standard Operating Procedures  
STED Summary Technical Document  
TB Tuberculosis  
TLA Total Laboratory Automation  
TRF Time Resolved Fluorescence  
UHDDS Uniform Hospital Discharge Data Set  
UI User Interface  
WHO World Health Organization



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