

Lab Automation Global Market – Forecast To 2020

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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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