HELPING LABORATORIES MEET THE EVOLVING DEMANDS OF A MODERN PATHOLOGY SERVICE
Heavier workloads, a shortage of skilled laboratory staff, and pressure for faster turnaround on results mean laboratories need advanced technologies to help them make life-saving decisions ...

Helping laboratories meet the evolving demands of a modern pathology service

The requirements for laboratories are dramatically changing as three trends collide:

- The consolidation of hospital testing facilities has resulted in the creation of “megalabs” that serve larger populations.
- The emergence of specialty testing centres is shifting certain types of tests to laboratories with specialist or proprietary diagnostic capabilities.
- Demographic changes are leading to heavier workloads as ageing populations increase the demand for hospital care and more medical tests. This trend is predicted to escalate over the next decade.

Automation is the key. A Laboratory Information Management System (LIMS) frees staff from administrative tasks and facilitates swift and accurate test results.

Our advanced laboratory solutions are used all over the world. With more than 500 live CSC laboratory system deployments globally, CSC is a market leader in laboratory software technology.
CSC LIMS is a comprehensive solution that helps scientists, technicians and management staff track samples and testing processes, send results to other healthcare professionals, monitor costs and create extensive reporting — while complying with industry standards and protocols.

CSC LIMS includes dedicated functionality for every laboratory discipline, with each module designed to create intelligent workflows and maximise efficiency. The solution offers a choice of discrete interconnected modules and will support the full range of laboratory disciplines, including:

- Haematology
- Biochemistry
- Microbiology
- Transfusion medicine
- Cellular pathology

These modules allow managers to choose the functionality they require.

**A complete solution**

CSC LIMS is designed from the ground up to provide leading-edge support to laboratories. With a range of robust capabilities, managers can customise CSC LIMS to suit their organisations’ requirements, while individual users can modify specific functions for particular laboratory environments.

CSC LIMS integrates with other CSC and third-party healthcare products, enabling seamless order communications and results reporting. This flexible software, combined with CSC’s healthcare knowledge and expertise, enables us to design and build a solution to fit your exact requirements.

**Customisation features**

Users can configure ordering and reporting systems, to create the fastest, most intuitive interface. Decision criteria and testing assessment rules can be set up to suit individual laboratories for follow-up prompts, speeding up the decision-making process and helping ensure accurate results.

Procedural stages for every analysis process are displayed clearly and consistently, allowing users to focus on current steps for complex processes and conditions requiring long-term analysis, for example, TB investigation.

The system also includes integrated follow-up and alert systems, and users can create starter sets to make frequently requested examinations easily accessible as soon as the CSC LIMS application opens.
Quality control
Dealing with increasing volumes of samples and results means inevitable quality control challenges, but CSC LIMS’ range of tools and features for improved sample management means that quality is ensured:

• Smart handling for microbiology results
• Intelligent tools for transfusion medicine and product management
• Powerful tools for continuous processes in cellular pathology
• Seamless device integration
• Robust volume processing for core laboratories
• Fast, effective communication of orders and results

Connected laboratories
Healthcare providers are increasingly consolidating their resources to produce pathology networks operating as clusters and referring complex investigations to specialist laboratories. CSC LIMS efficiently dispatches referrals to offsite laboratories, with users able to monitor sent requests, evaluate results and compile reports and invoices quickly.

Security, control and scale
Robust security. CSC LIMS includes comprehensive rights management features, with a federated access system that gives managers complete control over sensitive data. All users can store information in a central archive, but only authorised individuals can view patient-specific information.

Ease of use. Wizards and configurable workflows enable intuitive use, process standardisation and optimisation.

Scalability. Suitable for small and large laboratory networks, CSC LIMS can be scaled to meet individual requirements.

Comprehensive reporting tools.
These enable complete control over all data stored in the central repository. Users have immediate access to statistics for performance, products, equipment, turnaround times, patient data and accounts.

High-performance Caché database for volume processing. InterSystems Caché 2010 and above provides the backbone for superior performance.

Standards-based. CSC LIMS uses industry standard interfaces for connection to external systems based on various protocols, including HL7.

Learn more
Contact us: Go to csc.com/contact_us and select the “Client, Current or Prospective” link.

Be sure to follow CSC Healthcare Group on LinkedIn and CSC Global Health on Twitter.
Benefits

By increasing the speed and efficiency of laboratory activities, CSC LIMS helps you deliver better patient outcomes:

• Single view, with chronological and contiguous patient record
• Rapid sample turnaround time
• Reduced duplicate testing and fewer inappropriate tests
• Sample tracking for efficient and trouble-free specimen management
• Direct clinician access via the unique order and results viewing portal
• Process standardisation, efficiency and reliability via complex workflows and configurable rules
• Robust volume processing for speed, efficiency and cost-effectiveness
About CSC

CSC is a global leader in next-generation IT services and solutions. The company’s mission is to enable superior returns on our clients’ technology investments through best-in-class industry solutions, domain expertise and global scale. For more information, visit us at www.csc.com.