



PERSISTENT

## Key Benefits

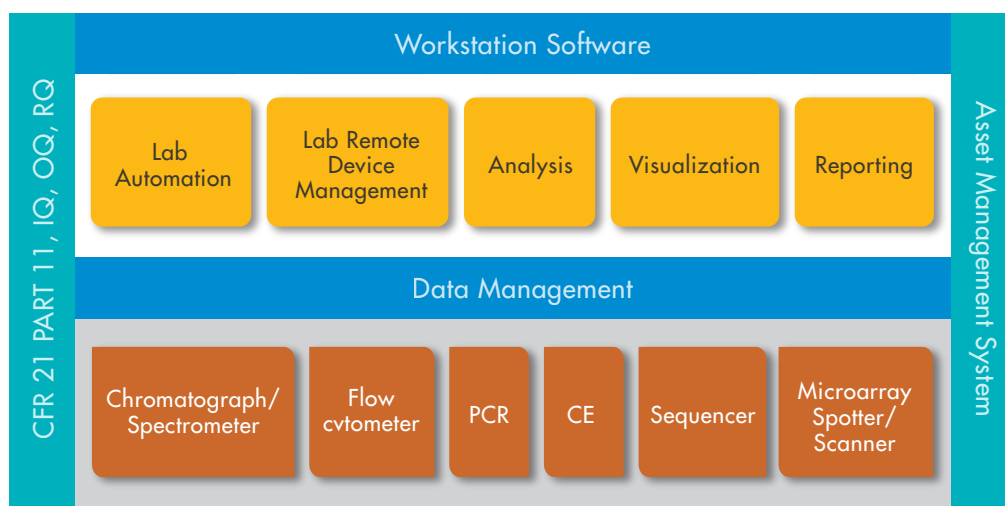
- 13 years experience with QC LIMS and associated workflow regulations and work practices
- Extensive experience with multiple LIMS products
- Out of the box reusable modules enable reduced time to market
- Microarray and proteomics LIMS helped reduce stress on researchers and improve performance of core labs by **30%**

## Laboratory Information Management System (LIMS) Services

*“How can pharmaceutical companies leverage expert resources to rapidly adopt workflow management systems to optimize performance?”*

As drug development pipelines transition from blockbusters to more targeted therapies, the urgency for compressing the discovery process becomes clear. Given smaller markets and longer development cycles, pharmaceutical manufacturers must find methods for streamlining laboratory operations to capitalize on research and development investments.

Persistent Systems has developed solutions for the management and tracking of data in the drug discovery, preclinical and clinical bioanalysis, manufacturing, and production quality control stages of the pharmaceutical development process.



*Typical LIMS Configuration*

## Persistent's LIMS Services

Persistent leverages its 13-year LIMS focus and laboratory operations experience to provide customers with:

- Consulting services delivered by experienced staff on your workflows and lab practices
- Development of custom LIMS
- Maintenance and enhancement of industry-standard LIMS
- Customizations for additional functionality, workflow and scalability
- Integration of instruments (e.g. CDS), data sources, and third party applications (e.g. ERP/MRP)

## LIMS Services

Capability	Highlights
Deployment Support	<ul style="list-style-type: none"> <li>• Configuration to meet the lab-specific requirements</li> <li>• Performance benchmarking to ensure correct hardware procurement</li> <li>• Automation to reduce validation time for LIMS deployment</li> <li>• Zero down-time data migration</li> </ul>
Support and Training	<ul style="list-style-type: none"> <li>• Telephone support 9AM-5PM, Monday-Friday in local time zone</li> <li>• Helpdesk</li> <li>• On and off-site training</li> </ul>
System Integration	<ul style="list-style-type: none"> <li>• Connectors to third party reporting engines like Cognos, Crystal Reports</li> <li>• Interfacing with other external information systems and analytics applications</li> <li>• Integration with CDS and ERP systems</li> <li>• Database and application server maintenance</li> </ul>
Consulting	<ul style="list-style-type: none"> <li>• Consulting services to adapt applications to your lab workflow</li> <li>• Custom enhancements to industry-standard LIMS</li> <li>• New feature additions</li> </ul>
Development	<ul style="list-style-type: none"> <li>• Compliance with 21 CFR Part 11 with auditing, authentication and approval controls</li> <li>• LIMS for various domains: high-throughput labs, clinical trails, biospecimen banking and preclinical systems</li> <li>• Dynamic and user enabled extensions to data model, workflow and user interface</li> </ul>

## Key LIMS Engagement Highlights

- Development of Workflow Management System with QC capabilities for for a pharmaceutical manufacturer
- Development of Clinical Study Management System and integration with data warehousing solution for clinical, sample, genotype, and reference data
- caTissue suite: Biospecimen Management System as a single gateway interface to collect and disseminate specimens and samples to core facilities. This NCI-award-winning solution is deployed at more than 10 cancer centers
- Web-based LIMS for high-throughput labs like Microarray, Proteomics and Flow Cytometry
- Design and development of custom LIMS for a public health laboratory for virology
- Web-based LIMS for managing preclinical studies

## About Persistent

Established in 1990, Persistent Systems is recognized as an award-winning technology company specializing in outsourced software product development. With 4,000 employees, innovative business models, and reusable assets and frameworks, Persistent helps its customers increase revenues and margins, and enhance brand value. Persistent Systems has delivered over 2,000 software product releases to their 170+ customers in the last five years. It has developed proven processes for the entire product lifecycle which reduce time to market while delivering consistent quality and customer satisfaction – as evidenced by customer partnerships that span many years.

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