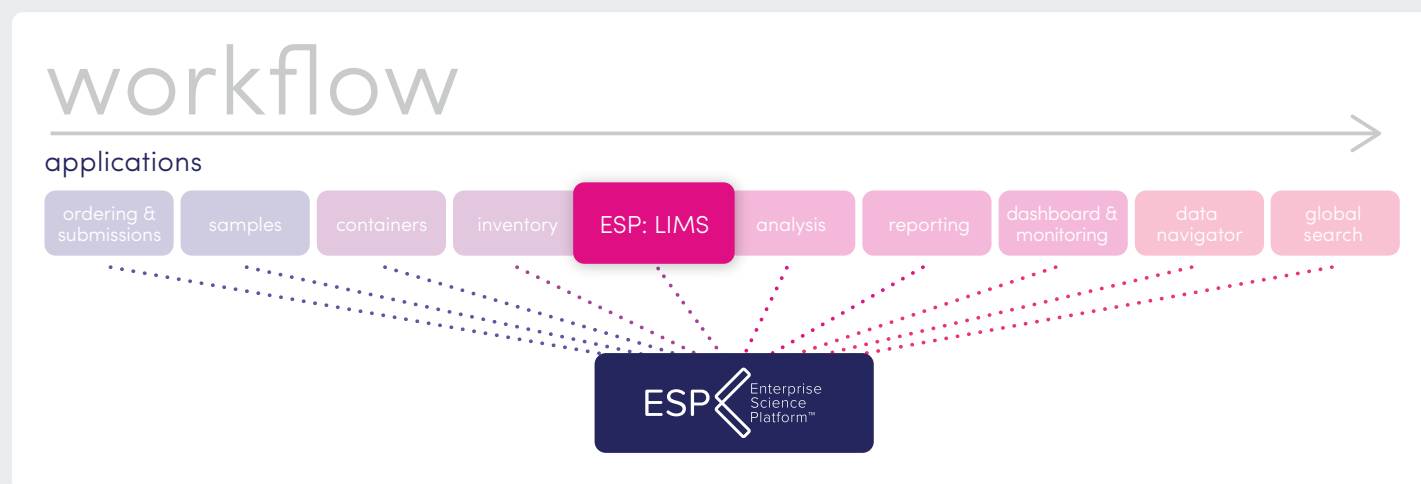


LIMS: a key L7 ESP application



A laboratory information management system (LIMS) is an essential component of laboratory workflows. ESP: LIMS is an application designed to provide transparency into your operations and maximize ease of use. Whether running as a complete LIMS solution

or complementing your existing LIMS, ESP streamlines integrated processes to facilitate better communication between lab technicians, managers, bioinformaticians, and scientists to create a strong foundation on which your operations are built.

features checklist

- **Built on L7 ESP** – Native integration enables tracking everything through other ESP applications
- **Advanced expression language** – Allows in-sheet computations
- **Advanced queuing** – Customize work queues for managing and tracking complex workflows
- **User-defined workflows** – Develop custom solutions that match user needs without L7 services
- **Included content** – L7 provides common laboratory and clinical workflows to minimize downtime
- **Integration with ESP: Analysis** – Lab techs can execute routine compute jobs directly
- **Integration with ESP: Containers** – Physical location management is tracked in workflows
- **Integration with ESP: Inventory** – Inventory management is tied to workflows
- **Integration with ESP: Data** – Import results directly from integrated instruments and software platforms



sample + experiment tracking

ESP: LIMS gives stakeholders a detailed view of where a sample is in its workflow. As each discrete item moves from one functional environment to another, users can view results in real time as they become available directly from ESP; no more hunting around for spreadsheets or emailing technicians for status reports. Furthermore, ESP natively enables connectors to various hardware and software systems in your lab environment, meaning that information can be pulled from or pushed into these platforms automatically and data provenance remains intact.



protocol management

In both laboratory and clinical operations, efficient protocol management and data entry are key for maintaining quality and throughput goals. As you move into regulated environments, accurate record keeping—including tracking sample progression—becomes a stringent requirement. ESP has the tools you need to maintain critical records, and forms the basis for the provenance that will be required for downstream reports.

Protocols in the ESP: LIMS application interface with the user through customizable spreadsheet views for fast data entry or through protocol sheet view for in-line data entry. Spreadsheets can be created for each lab technician, giving them a concise view into their daily workflow.



provenance

ESP: LIMS tracks the full provenance of data through instrument and software connectors to QC and mapping pipelines, as well as experiment-specific analyses. Users have full access to the provenance chain and all the data associated with each step, enabling complex queries that allow scientists to fully explore their results. In addition, a detailed provenance trail of all activities enables you to comply with regulatory requirements such as FDA, CAP, and CLIA.

To learn more about L7 Informatics' synchronized solutions for science + health, please visit the L7 ESP software page at [L7informatics.com](https://www.l7informatics.com) or email us at info@L7informatics.com



1219 West 6th Street | Austin, TX 78703
888.461.5227 | [L7informatics.com](https://www.L7informatics.com) | info@L7informatics.com