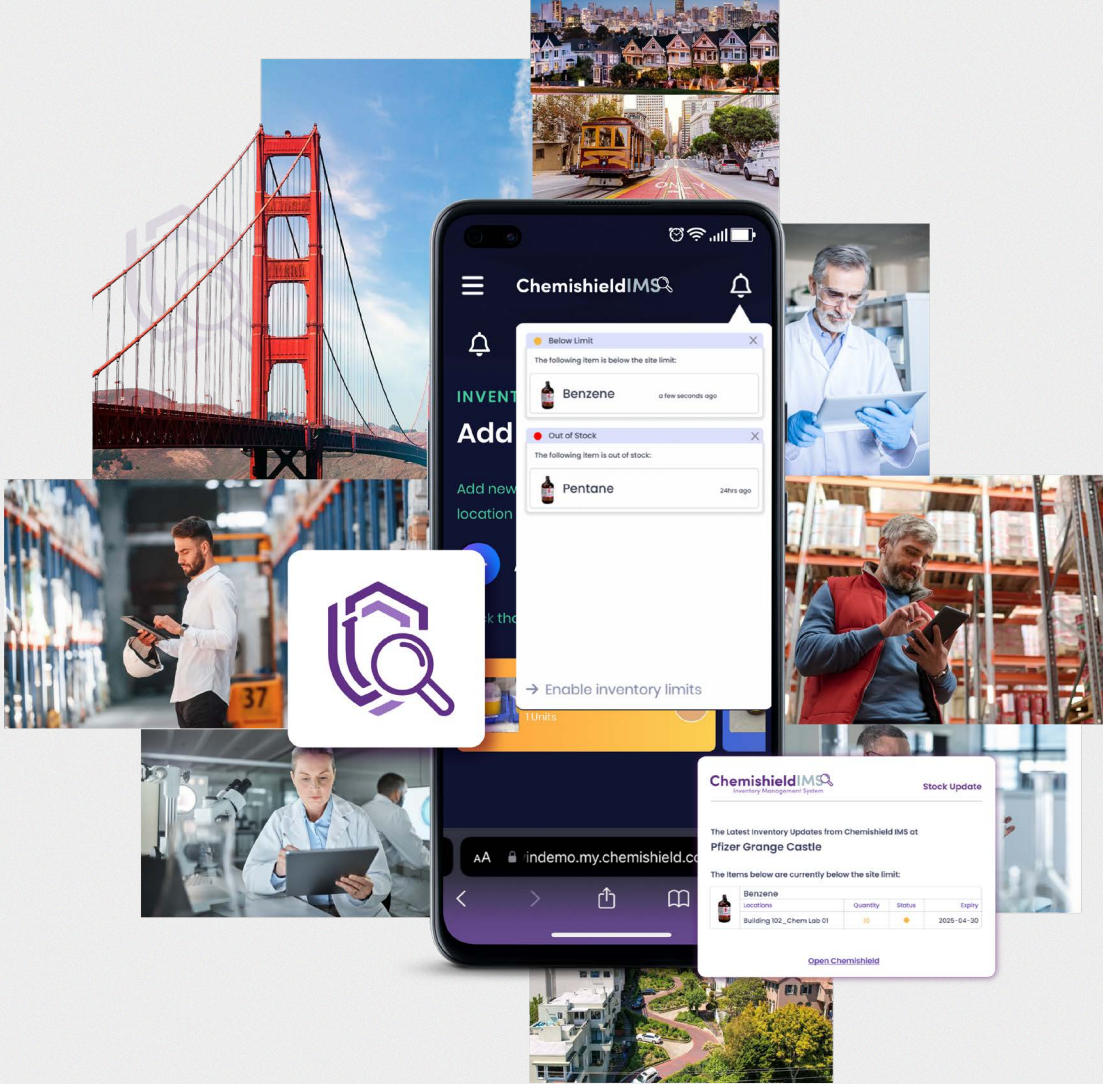


The Success of ChemishieldIMS



Transforming Inventory Management at



ChemishieldIMS 
Inventory Management System

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For the purposes of this case study, we have used “BioLab Innovations” as an alias for the research facility based in San Francisco. Due to legal restrictions, we were unable to disclose the actual name or logo of the company.

However, we assure that all statistics, figures, and data presented in this case study are accurate and reflect the facility’s operations as of September 2024. The information provided is based on real-world results, but the facility’s identity has been anonymized for confidentiality and compliance reasons.

For more information on our Case Study or Chemishield please email us at info@chemishield.com

Client Overview

BioLab Innovations, a prominent research facility with approximately 100 lab personnel, specializes in cutting-edge biotechnological research.

The lab, known for its extensive use of consumables and chemicals, previously relied on a manual inventory management system.



Challenges Faced

Before implementing Chemishield IMS, BioLab Innovations faced several critical challenges:



Inaccurate Inventory Tracking:

Manual methods led to frequent discrepancies and unreliable stock levels.



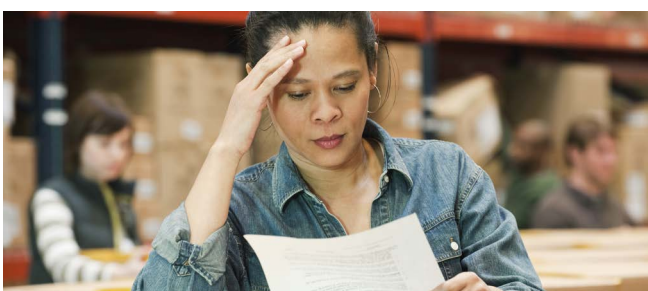
High Waste and Cost Overruns:

Overstocking and expired consumables resulted in significant financial losses and wasted resources.



Safety Risks:

Inadequate tracking of hazardous materials and improper storage increased safety hazards.

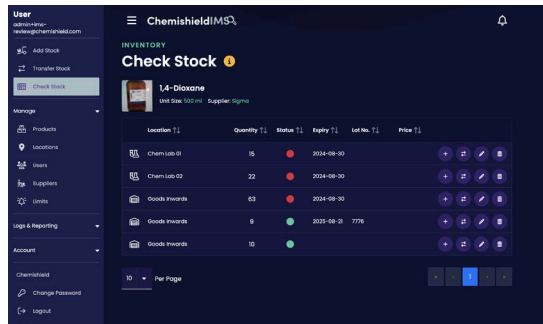


Administrative Burden:

Labor-intensive processes required extensive staff time for tracking and reporting.

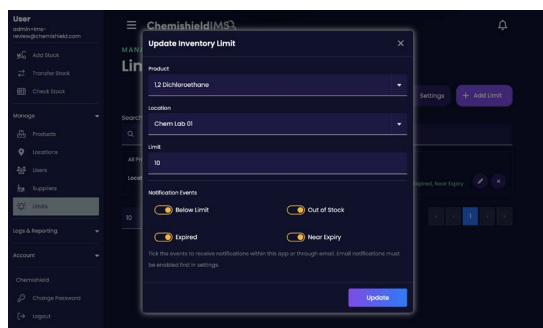
Solution Implemented

BioLab Innovations deployed Chemishield IMS, a state-of-the-art digital inventory management system, to address these issues. Key features included:



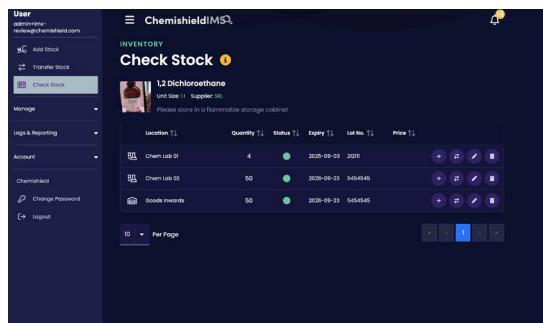
Real-time Inventory Tracking:

Automated updates provided accurate, up-to-date visibility of stock levels.



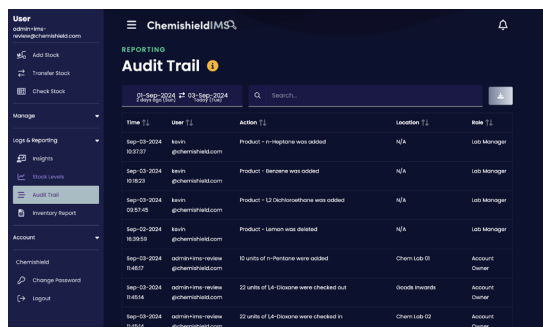
Optimized Reordering:

Predictive analytics improved forecasting and streamlined purchasing processes.



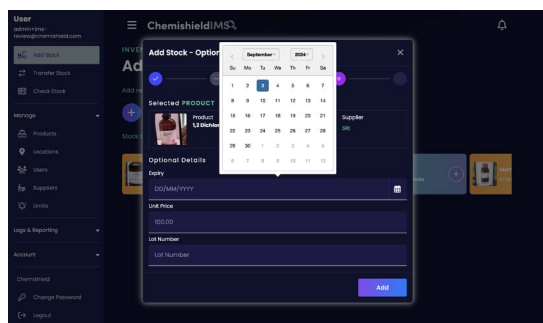
Enhanced Safety Features:

Integrated tracking for hazardous materials and adherence to storage conditions.



Reduced Administrative Work:

Automated reporting and data integration reduced manual effort.



Expiry Management:

Automated alerts for consumables nearing expiration reduced waste and ensured compliance.

Results Achieved

Substantial Waste Reduction:

Implementing an inventory system has significantly reduced the amount of waste the facility produces by optimizing stock management and ensuring accurate tracking of materials.

The system provides real-time visibility into inventory levels, allowing for better forecasting and minimizing overstocking of perishable or time-sensitive items.

By alerting staff when supplies are nearing expiration or surplus, it prevents unnecessary waste and enables timely redistribution or use.

Before Implementation

Annual waste costs due to expired and surplus consumables totalled
\$150,000

After Implementation

Waste costs decreased by **85%**, bringing the total to **\$22,500** annually

Savings: \$127,500 per year



Results Achieved

Enhanced Safety and Compliance:

Chemishield IMS has significantly increased safety and compliance at Bio Lab Innovations facility by providing precise control over the handling, storage, and tracking of sensitive materials.

The provision of a detailed audit trail has been invaluable in terms of being able to demonstrate real time movements of chemical inventory. The sheer volume of data with frequent time and date stamps provided client regulators with confidence that the storage of such consumables was in hand.

Additionally, automated alerts for regulatory documentation and safety protocols help maintain adherence to industry standards, while ensuring proper disposal of hazardous materials. This real-time oversight minimizes human error, strengthens audit trails, and fosters a safer working environment, ensuring full compliance with regulatory bodies

Before Implementation

Inadequate tracking and storage of hazardous materials posed significant safety risks and potential regulatory non-compliance.

After Implementation

Chemishield IMS ensured accurate tracking of hazardous materials and adherence to safety standards, reducing incidents and improving compliance. The enhanced safety protocols prevented potential accidents and compliance issues, estimated to avoid **\$25,000** in potential fines and safety-related costs.



Results Achieved

Significant Cost Savings from Accurate Inventory:

Chemishield IMS generated substantial cost savings by providing accurate, real-time inventory tracking, which has eliminated costly inefficiencies such as overstocking, stock shortages, and waste.

With precise inventory levels, the facility can optimize purchasing decisions, ensuring that only necessary quantities are ordered, reducing excess inventory and associated holding costs.

Before Implementation

Excess inventory led to a overstock rate, costing **\$100,000** annually.

After Implementation

Overstock rate reduced to **8%**, cutting costs to **\$32,000** annually.

Savings: **\$68,000** per year

Streamlined Purchasing Processes

Chemishield IMS helps avoid emergency purchases, which are often more expensive due to expedited shipping or last-minute sourcing. By minimizing waste from expired or unused items, the system further reduces costs.

Before Implementation

Emergency purchases and delays resulted in an additional annual cost of **\$50,000**

After Implementation

Improved forecasting and reordering reduced these costs to **\$15,000** annually

Savings: **\$35,000** per year

Results Achieved

Reduced Administrative Burden:

Chemishield IMS generated substantial cost savings by providing accurate, real-time inventory tracking, which has eliminated costly inefficiencies such as overstocking, stock shortages, and waste.

With precise inventory levels, the facility can optimize purchasing decisions, ensuring that only necessary quantities are ordered, reducing excess inventory and associated holding costs.

Before Implementation

Manual inventory management consumed 25 hours per week, translating to **\$40,000** annually in labor costs.

After Implementation

Automation cut administrative time by 70%, reducing the annual labor costs to **\$12,000**

Savings: **\$28,000** per year.



Overall Financial Impact

The total annual savings from implementing Chemishield IMS amounted to:



Waste Reduction Savings:
\$127,500



Inventory Accuracy Savings:
\$68,000



Streamlined Purchasing:
\$35,000



Safety and Compliance Benefits:
\$25,000

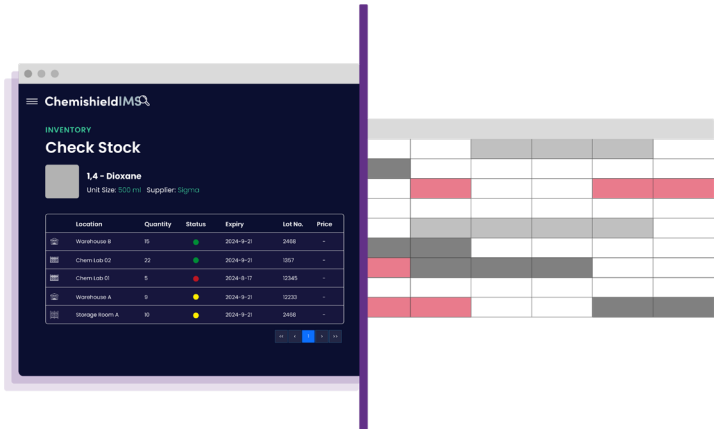


Administrative Savings:
\$28,000



Total Annual Savings:
\$283,500

The Difference Chemishield IMS Has Made



Implementing **Chemishield IMS** significantly improved the facility's daily workflow compared to the previous use of Excel sheets and paper records.

The automated system streamlined processes such as tracking stock levels, reordering supplies, and managing shipments, which had been time-consuming and prone to errors when handled manually.

With real-time updates and centralized data, staff were able to easily access accurate inventory information, reducing delays in decision-making and minimizing stock discrepancies. This led to increased efficiency, fewer human errors, better inventory control, and faster response times to customer needs, ultimately boosting overall productivity.

Relying on a paper and Excel-based inventory system poses several risks that can severely impact operational efficiency. Manual data entry is highly prone to human errors, leading to inaccurate stock counts, misplaced records, or overlooked restocking needs. The lack of real-time updates makes it difficult to track inventory levels, resulting in stock shortages or overstocking, which affects supply chain management.

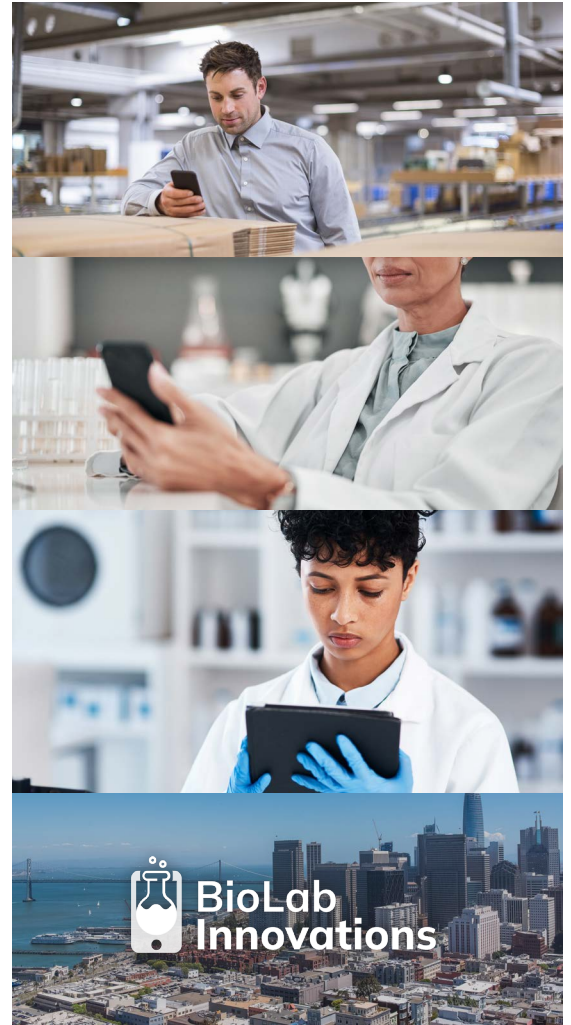
Conclusion



The implementation of Chemishield IMS at BioLab Innovations has yielded remarkable financial and operational benefits. With total annual savings of **\$283,500**, the system has significantly improved inventory accuracy, reduced waste, and streamlined purchasing processes.

The enhanced safety features have mitigated risks associated with hazardous materials, ensuring a safer work environment and compliance with regulatory standards.

BioLab Innovations continues to benefit from increased efficiency and cost savings, showcasing the transformative impact of digitizing inventory management in a modern laboratory setting.



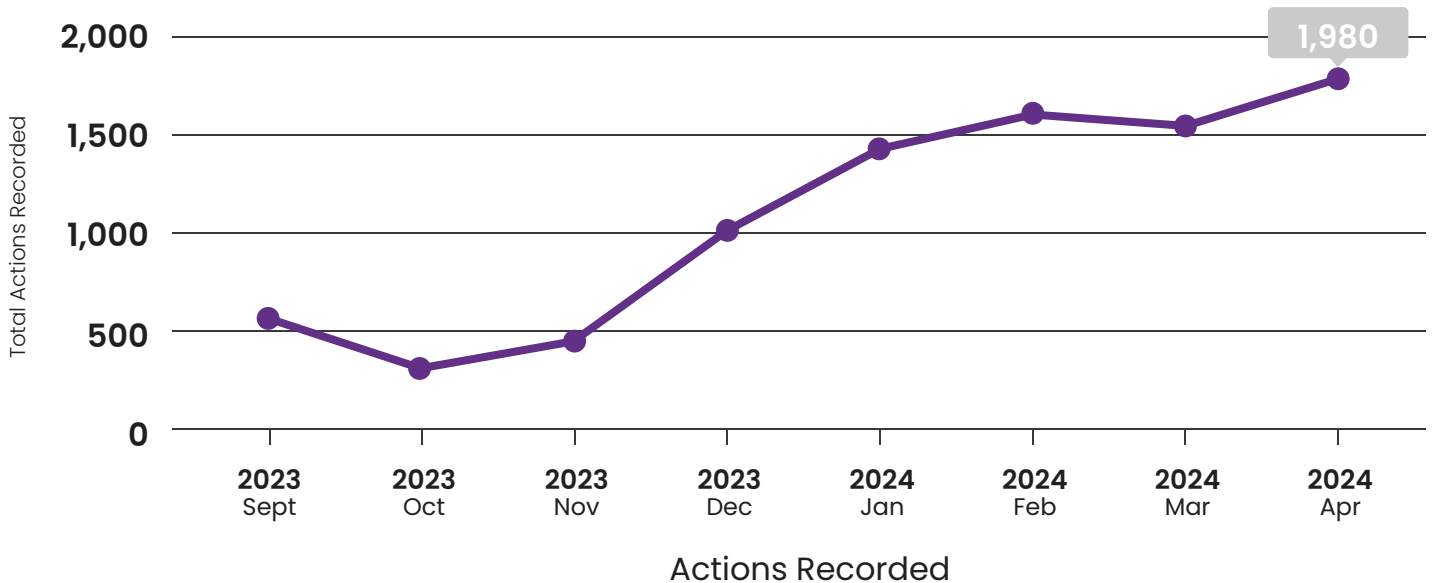
The Stats

142 Total User Accounts

2500 Total Inventory Items

7,205 Total Actions Recorded

17 Total Storage Locations



The Chemishield IMS has shown
continuing success at BioLab Innovations
and will do so into the future

Thank You



Visit chemishield.com to get a recorded or live demo



ChemishieldIMS 
Inventory Management System