



E TECH GROUP

Proven Expertise. Trusted Execution. Global Support.

Precision Automation. Connected Systems. Future-Ready Labs.

LAIR: Smarter Labs, Stronger Outcomes

E Tech Group's **Laboratory Automation and Industrial Robotics (LAIR)** solutions empower organizations to streamline workflows, reduce manual intervention, and **drive greater speed, accuracy, and compliance.**

We specialize in translating scientific protocols into automated, reproducible processes using **robotics, modular workcells, and compliance-ready LIMS integrations.** Our solutions connect **instruments, LIMS, and enterprise data platforms,** ensuring full traceability and audit readiness across regulated environments, aligned with **GAMP 5, Annex 11, and 21 CFR Part 11.**

Whether supporting **high-throughput screening, clinical diagnostics, QC labs, cell & gene therapy, GMP manufacturing, or fill/finish,** LAIR enables labs to operate with higher throughput, greater consistency, and scalable flexibility, laying the foundation for tomorrow's intelligent, fully connected facilities.

With LAIR, every workflow becomes faster, traceable, and future-ready—shortening batch release times, reducing operator interventions, and lowering deviation rates.



Why E Tech Group?



Global Presence

- With offices and project teams across **North America, Europe, South America, and Asia,** E Tech Group brings worldwide reach with local expertise. Our distributed team ensures rapid deployment, regional compliance knowledge, and global consistency

Life Sciences Leadership

- We specialize in automation for **data-intensive, highly regulated environments.** Supporting some of the world's leading **biotech, pharmaceutical, and diagnostics** organizations.

Advanced Expertise Across Key Disciplines

- By combining automation, robotics, and AI-driven optimization, we help clients build smarter, more connected facilities that scale with tomorrow's demands.

Beyond Automation and Control



E TECH GROUP

Key Areas of Expertise:

LAIR Group Lab Automation & Robotics

- Robotic protocol development & workflow automation
- Device & assay programming
- Custom lab automation hardware/software
- LIMS, analytics, and integrated lab data systems
- Compliance-ready lab control systems & infrastructure

Robotics & Workcell Integration

- Industrial-grade robotic arms & modular workcells
- High-throughput assay automation
- Complex motion control & seamless collaboration between instruments

AI-Driven Optimization

- Machine learning for predictive maintenance
- Workflow optimization & experimental outcome improvement

End-to-End Implementation

- Discovery through deployment lifecycle support
- System validation, documentation & compliance
- Audit-ready, scientifically sound solutions

LIMS & IT/OT Integration

- Seamless data connectivity between instruments, schedulers & LIMS
- Enterprise-wide data flow for traceability & compliance
- Middleware integration & secure IT/OT infrastructure

Data Integration & Analytics

- Real-time monitoring & dashboards
- Device communication & data pipeline connectivity
- Advanced analytics to support compliance & decision-making



Improved regulatory inspection readiness

- GMP-ready automation & validated workflows
- Robotics & LIMS integration for Part 11 compliance
- Audit-ready data to accelerate batch release
- Improved inspection readiness & reduced deviations
- Modular automation that scales with your lab

Beyond Automation and Control