



OVERVIEW

Life Sciences

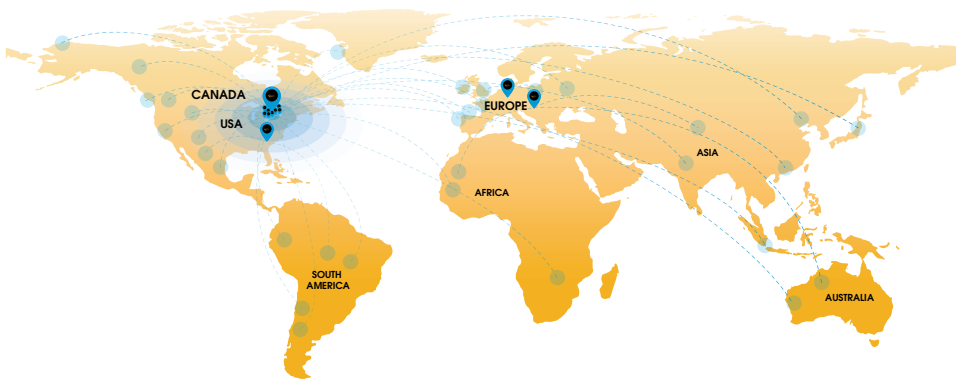
Eclipse Automation provides advanced automation solutions for life sciences and medical device manufacturers who need precision, reliability, and compliance at every stage, with complete lifecycle support.

Precision automation for life-changing innovation

Eclipse Automation delivers advanced solutions that help life sciences and healthcare manufacturers produce with confidence in regulated, high-stakes environments. Our teams combine world-class engineering with deep regulatory knowledge to design automation that supports compliant production across medical devices, diagnostics, pharma, wearables, and lab operations.

We understand the demands of highly regulated environments and build systems that ensure quality and traceability at every step. From surgical instruments and drug-delivery devices to diagnostic consumables and vision-care products, our technologies meet strict global standards while enhancing consistency and performance. Integrated MES and ERP connectivity provides the real-time visibility needed for confident scale-up.

With decades of experience delivering end-to-end automation, we manage the full lifecycle of every project. Our in-house capabilities span engineering, simulation, build, commissioning, and ongoing optimization, allowing us to oversee critical milestones and deliver reliable, future-ready solutions. Life sciences organizations rely on Eclipse to accelerate production while maintaining compliance and control.



10+
GLOBAL FACILITIES

1M+
SQ. FT. OF PRODUCTION CAPACITY

2001
YEAR FOUNDED

25
YEARS OF EXPERTISE

700+
HIGHLY TRAINED EXPERTS

At Eclipse Automation, we apply local knowledge while leveraging our global expertise to solve any automation challenge.

Automation capabilities for regulated operations

Our solutions are tailored to the needs of each project, giving our clients the level of efficiency, reliability, quality, and support needed to maximize the value of their long-term investment and business strategies.

Innovation, automation, and production lines

We design and build tailored automation systems that strengthen efficiency, reliability, and quality across life sciences production lines. Our expertise spans movement platforms, controlled processing, and end-to-end development of custom manufacturing solutions.



Manufacturing of specialized tools and equipment

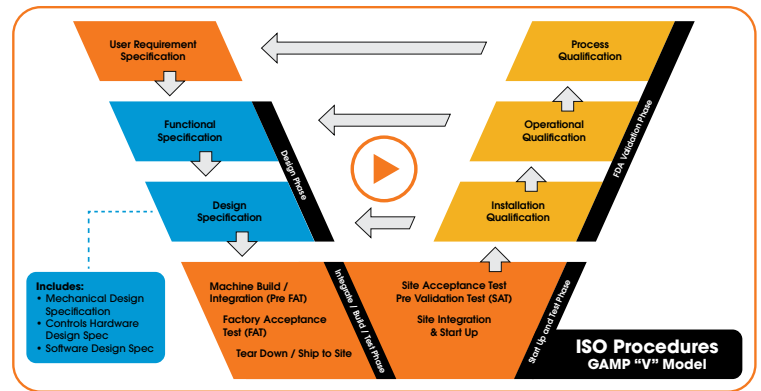
With in-house machining, welding, fabrication, and precision assembly, we manufacture high-quality components and equipment that meet strict life sciences and medical-device standards. Vertical integration and strong project-management systems ensure consistent performance from concept through build.

Optimization, consulting, and lifecycle support

Our teams review and enhance automated processes through data collection, inspection, testing, and modernization services. Installation, integration, upgrades, and obsolescence management are supported by a strategic approach that maximizes operational value throughout the entire facility lifecycle.

Supporting every stage of life sciences automation

Eclipse Automation combines deep industry expertise with precision engineering to deliver successful projects across medical devices, diagnostics, pharma, lab operations, and vision care. Our work spans the full automation lifecycle, ensuring systems are safe, compliant, and optimized for efficiency across complex, regulated production environments.



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Advanced Engineering Services (AES)

Our teams analyze workflows, define regulatory requirements, and simulate production processes to establish a strong foundation for each project. We develop proof-of-principle solutions, write detailed specifications and URS documents, plan strategically, and perform risk assessments, while integrating lean manufacturing principles to improve efficiency, reliability, and scalability.



Automation

From engineering and design to fabrication and assembly, we build systems for assembly, testing, material handling, and packaging. Every solution undergoes rigorous Factory and Site Acceptance Testing and is fully commissioned to integrate seamlessly with existing operations while supporting regulatory compliance.



Post-automation

Once systems are operational, we deliver training, validation support, and ongoing optimization. Our 24/7 support, spare-parts management, and lifecycle upgrades ensure long-term reliability, traceability, and scalability across fast-evolving life sciences environments.

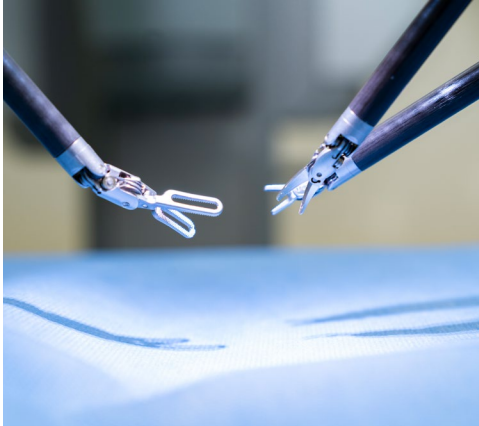


Vertical integration

By connecting automation with MES and ERP platforms and managing project execution and supply chains in-house, we provide full visibility across every stage of production. This integrated approach maximizes operational value and gives life sciences organizations confidence in each phase of their automation journey.

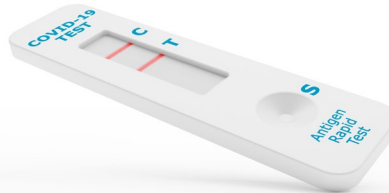
Our life sciences expertise

Eclipse draws on deep, wide-ranging experience across the life sciences sector. We support diagnostic cartridges, diabetes care, wearable devices, contact lenses, medical and surgical tools, and other specialty products where precision, consistency, and compliance are critical. Speed to market and dependable, compliant production practices remain at the centre of every project we deliver.



Surgical instruments

We design automation for the precise assembly of surgical tools and robotics, incorporating advanced vision inspection and tool-handling capabilities. Integrated traceability ensures compliance and quality throughout the process.



Diagnostics

Our platforms support the assembly and testing of point-of-care devices, diagnostic cartridges, and lab consumables. We also automate kitting, microfluidic devices, and lateral flow systems to accelerate testing and enhance accuracy.



Drug delivery

We develop automation for injectors, inhalers, syringes, patches, and other delivery devices. Each solution is built for high precision, regulatory compliance, and efficient scale-up.



Wearable devices

Eclipse supports the manufacturing of wearable medical technologies, including continuous glucose monitors, biosensors, and wearable drug delivery products. Our solutions help ensure consistent quality and reliable device performance.



Medical devices

Our expertise extends to catheters, tube and line sets, collection bags, IV components, connectors, and other medical-grade assemblies. Traceability and quality-control systems are integrated to meet strict regulatory requirements.



Pharma and lab automation

We engineer platforms for cleanroom logistics, sample management, robotic processing, packaging, and liquid handling. These systems accelerate research, streamline workflows, and maintain compliance in highly controlled environments.

Technology equals solutions

We solve real-world manufacturing challenges. Our independent insight, supported by a continuous improvement mindset, helps clients select the right technology to achieve their automation goals. By integrating advanced technologies with proven engineering methodologies, we create efficient, integrated solutions in assembly, material movement and handling, testing, inspection, and more.



Assembly

Our systems support a wide range of assembly techniques including UV, vapor, and thermal-cure epoxies, ultrasonic, radio frequency, and laser welding, heat staking, press-fit and mechanical assembly, and high-accuracy dispensing. Each process is designed for precision, consistency, and compliance with regulatory standards.



Material movement and handling

Eclipse provides advanced automation for tray handling, pick-and-place robotics, part feeding and sorting, and conveyance systems. We also integrate autonomous mobile robots (AMRs and AGVs) and web-handling technologies to improve workflow efficiency and reduce operational complexity.



Testing and inspection

Our capabilities include vision inspection, leak testing, functional and seal-integrity testing, and X-ray vision with 3D profiling. Integration with quality management systems ensures traceability and consistent compliance across medical device, diagnostics, and lab automation production.

Our commitment to quality

We adhere to Good Automated Manufacturing Practices (GAMP), SCADA requirements, MES compliance, and corporate documentation standards for ISO 9001:2015 and other industry regulations. By embedding these standards into our processes, we ensure every system meets quality expectations and supports long-term operational efficiency.

The Eclipse Advantage

Founded in Cambridge in 2001, Eclipse Automation delivers manufacturing automation solutions for clients across the nuclear energy, life sciences, transportation, consumer, industrial, food & beverage, semiconductors, and aerospace & defense sectors.

Our cross-industry experience allows us to adapt proven technologies and best practices from one sector to another, enhancing precision, performance, and reliability for every customer.

With operations across Canada, the U.S., and Europe, we continue to grow our reach and capabilities to meet the evolving needs of all global manufacturers.

Ready to build what's next?

Contact us today to see what's possible:

www.eclipseautomation.com/book-a-discovery-call

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