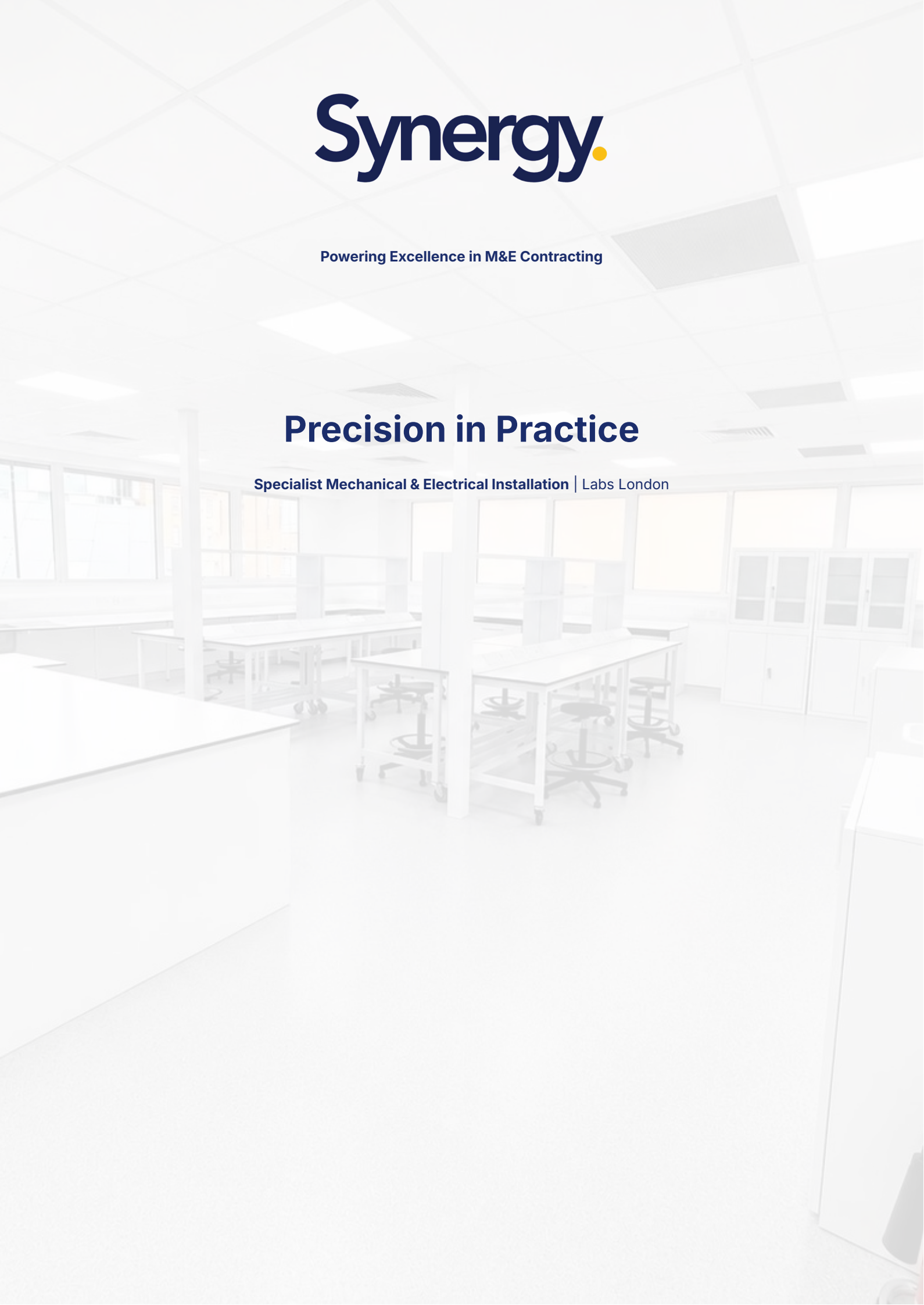
Synergy.

Powering Excellence in M&E Contracting

Precision in Practice

Specialist Mechanical & Electrical Installation | Labs London



A Live Laboratory. Zero Margin for Error.

Synergy Group Solutions was appointed by Axis@work to deliver specialised plumbing and electrical adaptations at Labs London. The facility remained fully operational throughout, with no shutdowns or disruption permitted, and the finish had to meet the highest standards.

The project centred on installing a new free issue laboratory sink within a live scientific environment, demanding clinical precision, meticulous planning, and seamless integration with existing infrastructure. With limited access to drainage, active research teams on site, and real risks around contamination, equipment downtime, and compliance, it required a specialist contractor with the technical depth and operational discipline to deliver without interruption.

Client

Labs London

Appointed By

Axis@work

Contractor

Synergy Group Solutions

Discipline

Mechanical & Electrical

Engineered Around the Building. Built Around the Client.

Working in a sensitive, layout constrained environment, our engineers carried out a detailed pre-installation survey to understand the existing mechanical and electrical infrastructure before any pipework began. This intelligence led approach is central to how Synergy operates in live environments, we do not improvise, we engineer.

The main technical challenge was gravity drainage. The proposed sink location did not allow a conventional gravity fed waste route to the existing stack. Rather than compromise the installation or request disruptive structural work, our team identified a specialist solution: a Saniflo pumped waste unit, installed directly into the existing stack within the ceiling void. This resolved the drainage constraint while preserving the ceiling finishes and avoiding any impact on the operational areas below.

To further protect this high value environment, integrated leak detection was installed beneath the waste connection providing an essential early warning system and reducing operational risk from day one. The leak detection system was wired on a dedicated fused spur circuit, with minor modifications made to the existing distribution board to accommodate the new load. Every element of the installation was carried out in accordance with current regulations and the client's own internal standards.

Key Engineering Decisions

Pre-Install Survey

Full infrastructure assessment before works commenced

→ Pumped Waste Solution

Saniflo unit fitted into ceiling void to resolve drainage constraints

Leak Detection

Early warning system installed beneath all waste connections

→ DB Modifications

Dedicated fused spur with board amendments to current regulations

What We Delivered

A fully coordinated mechanical and electrical installation, completed without interruption to a live bioscience facility. Each element of the scope was executed to exacting standards within a constrained and operationally sensitive environment.

Water Supply & Drainage

New hot, cold, and waste connections installed to serve the laboratory sink, ensuring reliable performance and full compliance within a controlled scientific setting. Pipework was routed to minimise disruption to adjacent areas and finished to the building's internal standards.

Saniflo Integration

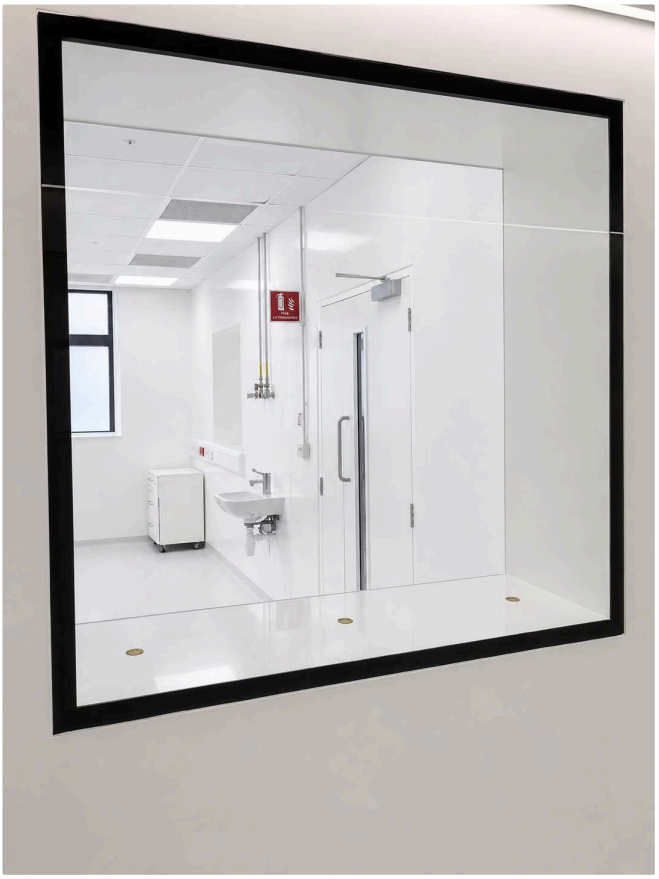
Specialist pumped waste unit installed into the ceiling void, connecting directly to the existing stack. This bespoke solution resolved the gravity drainage constraint without structural intervention, maintaining ceiling integrity and operational continuity throughout.

Leak Protection

Advanced leak detection sensors installed beneath all waste connections as part of an integrated early warning system. Designed to protect laboratory equipment, research materials, and the wider facility from water ingress reducing operational risk from the moment of commissioning.

Electrical Works

Dedicated fused spur circuit installed to supply both the leak detection system and the Saniflo unit, with minor distribution board modifications carried out to accommodate the additional load. All electrical works completed in full compliance with BS 7671 and site specific requirements.



Critical Work. Continued Without Interruption.

Synergy Group Solutions delivered a safe, fully compliant, and operationally robust installation that integrated seamlessly with Labs London existing mechanical and electrical infrastructure. The scope was completed on programme, within the agreed access parameters, and to the precise standards expected within a live research environment.

The facility remained fully operational throughout every stage of the works. Research teams experienced no disruption to their scientific programme, and the building's infrastructure was left in a condition that reflects Synergy's commitment to quality and care. The new laboratory sink installation with its pumped waste solution, integrated leak detection, and dedicated electrical supply, now forms a dependable and compliant part of the facility's operational capability.

This project is a representative demonstration of Synergy's ability to execute precise, specialist mechanical and electrical upgrades in the most demanding of live environments. It underscores the value of appointing a contractor with the technical capability, operational discipline, and sector experience to deliver where others would hesitate. Where the environment demands exactitude, Synergy delivers.

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Disruptions to Operations

Facility remained live throughout

100%

Regulatory Compliance

BS 7671 and site standards met in full

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Integrated Solution

Coordinated M&E delivery, single point of accountability

Specialists. Not Generalists.

When a project carries genuine technical risk and when the environment is live, the tolerances are tight, and the consequences of failure are significant, the calibre of contractor appointed is not a procurement detail. It is a programme critical decision. Synergy Group Solutions was built to serve precisely these conditions.

Hands-On Precision

A Synergy engineer delivering careful, precise work at the microscope in an active laboratory setting, demonstrating the technical control and attention to detail required in a live research environment.

Careful Live Lab Working

Professional, methodical delivery within an operational scientific space, working safely and respectfully around sensitive lab equipment while maintaining the standards expected in a live environment.

Quality Fit-Out Delivered

A clean, professionally finished laboratory installation that reflects a high standard of workmanship, with every detail completed to provide the client with a ready to use, quality environment.

At a Glance

A concise summary of the Synergy Group Solutions installation at Labs London, demonstrating coordinated specialist M&E delivery within a live, operational scientific facility.

Project

Specialist M&E installation to accommodate a new free issue laboratory sink within a live bioscience research facility

Client

Labs London, appointed via main contractor Axis@work

Scope

Hot, cold and waste connections; Saniflo pumped unit; integrated leak detection; dedicated fused spur and DB modifications

Environment

Live, operational laboratory facility no shutdown, no disruption to scientific programme

Outcome

Safe, fully compliant installation delivered on programme, integrated seamlessly with existing building infrastructure

Disciplines

Mechanical (plumbing, drainage, pumped waste) and Electrical (fused spur, distribution board, leak detection supply)

Have a project that demands precision?

Synergy Group Solutions delivers specialist mechanical and electrical installation for clients who cannot afford compromise. From live laboratory environments and occupied workplaces to complex commercial refurbishments and technically constrained retrofit projects, our team brings the expertise, discipline, and coordination needed to deliver safely and efficiently. We support clients across research facilities, healthcare settings, commercial premises, and education environments, tailoring our approach to the demands of each site. Through careful planning, clear communication, and disciplined project management, we help keep programmes on track while maintaining exacting standards of quality, safety, and compliance from start to finish.

Proven Track Record

Trusted to deliver complex installations in live, technically demanding environments.

Single Point of Accountability

One coordinated team managing mechanical, electrical, and compliance requirements.

Compliance-Led Delivery

Every project is planned and executed to meet the highest standards of safety and regulations.

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