



Bespoke & Specialist Cleanrooms

Custom-engineered control for
complex industries

Vanguard 
Life Sciences

Precision environments engineered for the world's most demanding applications

Advanced manufacturing, aerospace, quantum technologies, microelectronics, photonics and other high-tech sectors rely on ultra-controlled environments where even minor variation can compromise performance, data integrity or product quality. In these settings, cleanrooms are not supporting infrastructure. They are critical to success.

Vanguard Life Sciences designs and delivers bespoke cleanroom environments engineered to meet exacting technical, environmental and operational requirements. Built under controlled conditions and tailored to your precise specifications, our facilities deliver reliable, repeatable performance with the flexibility to evolve as technologies advance

Precision built. Performance assured. Tailored to your environment.

Custom-engineered cleanrooms for advanced science and high-spec manufacturing.

Cleanrooms engineered around your exact parameters

In specialist industries, no two processes are the same. Vanguard Life Sciences works in close partnership with engineering, R&D and production teams to create environments defined by your requirements, not pre-set templates.

Why specialist industries choose Vanguard

Designed to any ISO classification

Cleanrooms can be engineered to ISO 5, 6, 7 or 8 standards, or hybrid configurations, with precisely controlled airflow dynamics, pressure regimes and environmental stability.

Built for niche and next-generation applications

Our solutions support highly specialised sectors including quantum computing, microelectronics and semiconductor handling, aerospace assembly, precision optics, advanced materials, battery technologies and emerging R&D applications.

Precision environmental control

Each environment is tailored to the demands of the process, with control over temperature and humidity stability, ultra-low particulate levels, containment or pressurisation, ESD protection, vibration management and airflow uniformity. Cleanability and operational resilience are designed in from the outset.

End-to-end engineering partnership

We provide comprehensive technical support throughout the project lifecycle, including user requirement specification development, detailed engineering and HVAC design, factory-controlled construction, seamless on-site installation and full qualification documentation.

Future-ready modular design

Our modular approach supports cleanroom expansion, equipment upgrades, zone reconfiguration and evolving R&D needs, ensuring your infrastructure keeps pace with innovation.



Modular cleanroom solutions for complex technical environments

Our modular portfolio delivers engineered reliability, rapid deployment and long-term adaptability for specialist industries operating at the limits of precision.

Contained solutions

Rapid-deployment, containerised cleanrooms provide precision-controlled environments for early-stage development and pilot work. Ideal for feasibility studies, prototype development, small-scale assembly and controlled testing, these units offer fast mobilisation with dependable environmental control.

Mobile and demountable facilities

Deployable controlled environments designed for specialist workflows beyond central manufacturing or research facilities. Suitable for remote testing, flexible pilot lines or environmental isolation of sensitive components, these fully serviced units minimise disruption to core operations and can be relocated as projects evolve.

Modular MMC facilities

For permanent, high-performance requirements, modular modern methods of construction facilities deliver the highest levels of control, customisation and integration. Ideal for multi-zone cleanrooms, high-precision manufacturing, temperature and humidity-critical processes, vibration-sensitive equipment and multi-stage R&D lines, these facilities provide long-term stability with reduced on-site construction time.



Infrastructure engineered for uncompromising precision

Where precision matters, infrastructure must perform without compromise. Vanguard Life Sciences delivers tailored cleanroom environments engineered to the most exacting standards, supporting the performance, reliability and innovation demands of specialist industries.

With factory-controlled construction, advanced engineering expertise and flexible modular delivery, we create environments that protect processes, enhance outcomes and future-proof your operations.





Speak to our Life Sciences team

Let's explore how we can design the specialist cleanroom environment your advanced technologies demand.

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