



PHARMACEUTICAL & BIOTECHNOLOGY SERVICES

www.merrick.com | hello@merrick.com

Innovation Across the Life Science Industry

Merrick partners with pharmaceutical and biotechnology leaders to meet the demands of innovative research and development, sustainable manufacturing, and personalized healthcare. With our integrated team of science and regulatory experts, architects, and engineers, we deliver facilities, processes and operational programs that integrate the rigors of science with safety and efficiency.

Solutions for the Life Science Ecosystem



Life Science Facility Design



We provide full spectrum of technical services to new facilities, conversions, or fit-outs to deliver new capabilities and capacity, with deep expertise in R&D.



Commissioning & Technical Performance



For new facilities or troubleshooting, we help ensure critical systems and equipment operate effectively to meet scientific, operational, and regulatory expectations.



Performance Optimization



Resolving issues or improving efficiency, we assess and refine workflows for isolated processes or comprehensive portfolio operations to remove inhibitors and improve overall performance.



Sustaining Quality and Compliance



With expertise from biorisk management and animal welfare to GMP, FDA and Global Health, we deliver assessments, SOPs, and training for future alignment with corporate and regulatory guidance and industry best practices.

Why Partner with Merrick?

Life Sciences is more than a market to Merrick. It's the engine that powers the bioeconomy we all depend on. At Merrick, our architects, engineers, and scientists approach every program with a focus on **making science happen.**



Pharmaceutical Clients Include:

AstraZeneca	GlaxoSmithKline	Wyeth
Pfizer	Lonza	Technilab Pharma
Bavarian Nordic	Sanofi Pasteur	Perrigo
Merck (MSD)	Eli Lilly & Co	Organon
Novartis	MannKind	Boston Scientific
Medgene	Bristol-Myers Squibb	



Notable Impacts

Life Science Facility Design

INTEGRATED RESEARCH CAPABILITY

Responsible for the planning, design and technical performance verification services for the integration of 3,000 SqM of new science within an operating state-of-the-art research facility. The project meets the client's desired capacity and integrates advanced imaging. Merrick's solution will ensure the client's oncology and biopharma development pipeline of novel cancer therapeutics can be met for decades to come.

BIOLOGICS DEVELOPMENT MODULE

Supported design and developed operational model scenarios for a unique proof-of-concept production facility designed to enhance and expedite the transition of innovations from research to commercially-viable countermeasures like vaccines and diagnostics. It operates adjacent to high-containment research spaces within a secure campus, enabling advancement of solutions for transboundary and emerging veterinary pathogens.

Sustaining Quality and Compliance

GLOBAL BIOSAFETY MODERNIZATION

Updated multi-national guidelines across 15+ sites to enhance safety, health and environmental compliance.

OPERATIONAL AND PERFORMANCE MANAGEMENT

Supported client leadership with evaluation of the client's asset management team and Operational Model for a multi-discipline research campus with more than 2,200 operating scientists. Developed guidance for the client to sustain optimal operational performance retain world-class scientific talent.

Performance Optimization

COVID-19 VACCINE MOBILIZATION

Delivered biorisk program development, staff training, and rapid regulatory compliance to enable the conversion of a diabetes therapeutic facility into an mRNA vaccine production site in 70 days.

ANIMAL VACCINE MANUFACTURING

Production analysis and optimization roadmap including tactical steps (equipment layout drawings, process flow drawings, and an equipment specification) to significantly increase annual vaccine dose production without impact on existing production capabilities.

HUMAN VACCINE MANUFACTURING

Production analysis of complex sterile vaccine manufacturing processes integrating BSL3 biocontainment constraints. Merrick continues to provide engineering and technical support integrated with the client operations team to mitigate Batch Deviations with corrective and preventive actions (CAPA), optimize batch overall Cycle Time, improve CIP/SIP efficiency, and support improvements across campus utility infrastructure, safety & biosafety practices. Measurable production improvements continue to be realized with each subsequent project phase.

Commissioning and Technical Performance

MULTI-STORY OPERATIONAL READINESS

Ongoing technical advisory support to the client leadership team for research fit-out and science transition of high-rise commercial core and shell development. Merrick is providing technical review, gap/risk analysis and advise focused on mitigating risks that may between turnover and science startup, ensuring the client's operational readiness is efficiently achieved.