Life Sciences

Merrick Qualifications

MERRICK®

www.merrick.com

Ryan N Burnette, Ph.D., MBA

Vice President, Life Sciences

“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 laboratory and program with a focus on ***making science happen****.”*

MERRICK

BY THE NUMBERS

FOUNDED in 1955

EMPLOYEES 850+

26 OFFICES in

4 COUNTRIES

and 13 STATES

4 PRIMARY MARKETS

80% of clients are REPEAT CUSTOMERS

7 CONTINENTS worked on

MARKETS

ENERGY

Merrick has effectively served the process industries for more than three decades. Working closely with our clients, we deploy state-of-the-art engineering, design, and capital cost estimating tools to arrive at targeted solutions.

LIFE SCIENCES

For nearly 30 years, Merrick has provided solutions for science through our work in facilities and lab design, operations and transition planning, forensic and certification assessments, and biosafety and biosecurity.

NATIONAL SECURITY

Merrick provides engineering, architectural, geospatial, and survey services for the Department of Defense, NASA, the Department of Energy, National Nuclear Security Administration, and other government entities.

INFRASTRUCTURE

Infrastructure has been one of our core markets since Merrick's founding. Since then we've grown to include: land development, transportation, water, and white water.

SERVICES


ENGINEERING


ARCHITECTURE


DESIGN-BUILD


CONSULTING


COMMISSIONING


GEOSPATIAL


SURVEYING


LANDSCAPE ARCHITECTURE


SCIENCE & TECHNOLOGY

26 OFFICE
LOCATIONS

EXPERIENCE
GLOBALLY

Why Do We Do What We Do?

“Why” is more important than “what.”

- **Life Sciences Business Unit**
  - Design, Construction Phase and Commissioning
  - Engineers
  - Architects
  - Designers
  - Scientists
  - Physicians
  - Veterinarians
  - Public Health Professionals
  - Biotechnologists
  - Biosafety & Biosecurity Professionals
  - IT & Cybersecurity
  - Risk & Threat Management

Merrick & Company

Life Sciences Overview

LIFE SCIENCES

FEDERAL

ACADEMIC

PUBLIC HEALTH

BIOPHARMA & BIOTECH

HEALTHCARE

INTERNATIONAL

COMMERCIAL

1

Design

Laboratory Planning

Master Planning

Mechanical/HVAC

Electrical

Civil/ Structural

2

Commissioning

Agent Services

Owner's Representative

Design Phase Planning

Retro-Commissioning

Performance Verification

3

Science & Technology

Biosafety & Biosecurity

Biotechnology

Cybersecurity

Operational & Transition Planning

Global Health Security

LIFE SCIENCES

WHAT WE DO

SERVICES

Architecture/Engineering Design

Commissioning

Science & Technology Consulting

FACILITY TYPES

Biocontainment Laboratories
Research & Development Labs
Diagnostic Labs
Renewable Energy Research Laboratories
Animal/Plant/Human Health Labs
Liquid & Solid Waste Management Systems
Biosecurity/Biosafety
Chemical, Biological, Radiological Labs
Nuclear Energy Research Facilities
Cleanrooms
Environmental Chambers
Gloveboxes
Isolation Barriers
Remote Material Handling
Germplasm Repositories
Pharmaceutical Research, Development and Manufacturing
Specialized Outpatient Medical Clinics

SME'S

Lab Planners
Architects
MEP Engineers
Structural Engineers
Commissioning Agents
Scientists
Physicians
Veterinarians
Public Health Professionals
Biotechnologists
Biosafety and Biosecurity Professionals
IT & Cybersecurity
Risk and Threat Management

GORGAS

INSTITUTE

SUSTAINABLE DESIGN

WORKPLACE SAFETY

EMISSION REDUCTION

MASTER PLAN &
SCHEMATIC DESIGN

COST ANALYSIS

TECHNICAL STUDY

1 CAMPUS; 8 BUILDINGS

7,952 SQ. FT.

INTEGRATED DESIGN
DECISION PROCESS (IDP)

US Department of Agriculture

National Bio & Agro Defense Facility

RESEARCH LABORATORY

520,000 SF

$978 MILLION

BSL-2, 3, 3E, 3Ag, 4

PLANNING, DESIGN, CONSTRUCTION ADMINISTRATION AND COMMISSIONING

OPERATIONAL PLANNING AND TECHNOLOGY INTEGRATION

RESEARCH, DIAGNOSTIC TESTING AND VALIDATION, COUNTERMEASURE DEVELOPMENT, DIAGNOSTIC TRAINING FOR HIGH-CONSEQUENCE LIVESTOCK DISEASES

NZ Ministry for Primary Industries

National Biocontainment Laboratory

RESEARCH LABORATORY

35,000 SF

$60 MILLION

BSL-2, 3, 3E

PLANNING, DESIGN, CONSTRUCTION ADMINISTRATION AND COMMISSIONING

DIAGNOSTIC TESTING, SURVEILLANCE AND RESPONSE PROGRAMS, IMPORT/EXPORT TESTING, AND RESEARCH PROGRAMS

Purdue University

Animal Sciences and the Experiential Learning Complex

RESEARCH LABORATORY

125,000 SF

$60 MILLION

PLANNING, DESIGN, AND CONSTRUCTION ADMINISTRATION

ARCHITECTURAL DESIGN AND ELECTRICAL ENGINEERING FOR THE ANIMAL STUDIES WING, AND MECHANICAL AND PLUMBING ENGINEERING FOR ENTIRE FACILITY

6,800 SF ARENA FOR CLASSES AND SHOW EVENTS, LARGE-ANIMAL HOLDING, ABATTOIR, MEAT CUTTING CLASSROOMS, SAMPLE LABS, SMOKEHOUSE AND PACKAGING SUITE, RESEARCH KITCHEN, AND PUBLIC RETAIL SHOP

Taiwan National
Defense Medical School

Institute of Preventive Medicine

RESEARCH LABORATORY

40,000 SF

BSL-2, 3, 4

LABORATORY PLANNING AND FUNCTIONAL PROGRAMMING FOR THE CONTAINMENT SPACES INCLUDING ARCHITECTURE AND ENGINEERING PRE-DESIGN, SCHEMATIC DESIGN AND DESIGN REVIEW FOR SUBSEQUENT DESIGN STAGES

DETECTION, INFECTIOUS ANIMAL MODEL, BIOLOGICAL PROTECTION SUPPORT, AND VACCINE, ANTIBODY PRODUCTION ASSESSMENT

Colorado State University

Center for Vector-Borne and Infectious Disease

RESEARCH LABORATORY

38,000 SF

$18 MILLION

BSL-2, Insectory

PLANNING, DESIGN, AND CONSTRUCTION ADMINISTRATION

USGBC V4.0 AND DESIGNED TO LEED SILVER

ARTHROPOD-BORNE AND INFECTIOUS DISEASE RESEARCH

US Department of Agriculture

Southeast Poultry Research Laboratory

RESEARCH LABORATORY

235,000 SF

$140 MILLION

BSL-2, 3, 3E, 3AG, ABLS-2, 3

PROGRAM OF REQUIREMENTS, PLANNING, CONCEPTUAL DESIGN, CONSTRUCTION ADMINISTRATION AND COMMISSIONING

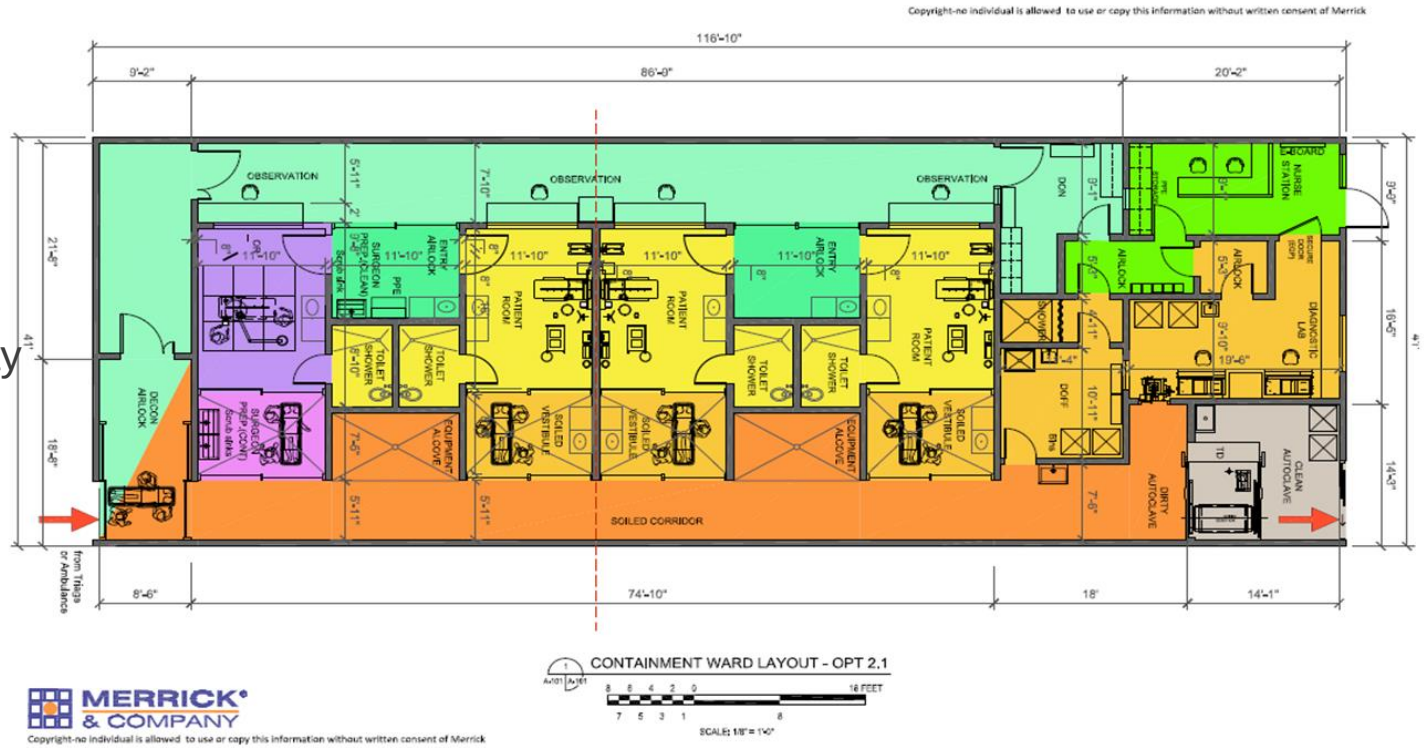
OPERATIONAL PLANNING AND TRANSITION PLANNING

RESEARCH TO PROVIDE SCIENTIFIC SOLUTIONS TO NATIONAL AND INTERNATIONAL EXOTIC, EMERGING AND ENDEMIC POULTRY DISEASES

ISOLATION WARDS

INFECTIOUS DISEASE HOSPITAL SUITE

- Designed with biosafety, biosecurity and biocontainment
- Defined by CDC, NIH and WHO
- Scalable designs to fit within an existing hospital or a new hospital to accommodate single, or multiple bed capacity, inclusive of dedicated diagnostic laboratories
- Healthcare worker, patient and environment safety and PPE management
- Technical designs that demonstrate zones of risk, protecting patients, the environment and the health care staff
- Decontamination systems for rooms, PPE, organics and liquid wastes



GORGAS INSTITUTE OF HEALTH STUDIES

PRIMARY PUBLIC HEALTH MANAGEMENT