



ENSURING BIOCONTAINMENT FACILITY OPERATIONAL PERFORMANCE

PASSIONATE ABOUT PERFORMANCE

Cornerstone is well known for BSL-3 facility performance services, having been an integral part of project teams for over 200 BSL-3 or BSL-4 facilities. Our extensive expertise in biocontainment enables us to help our clients not only to build, but to operate facilities effectively. We provide consulting services to optimize BSL-3 operations during planning, design, and construction to help make the transition to full operation seamless. We provide similar services to enable existing operations to achieve their full potential through continuous improvement.

IS OPERATIONAL EFFICIENCY A CONCERN FOR YOUR BIOCONTAINMENT FACILITY?

As laboratory missions evolve, processes often need to be adapted to changing demands. Cornerstone's advisors employ a holistic approach to assess processes, equipment, and facilities interdependently to recommend best practices. We partner with you to improve workflow, reduce turnaround time, use resources efficiently, optimize space use and maximize financial value. We help your team to work smarter, not harder, while achieving the best possible results for high- efficiency and robust operations.

**WHEN YOU HIRE
CORNERSTONE,
IT'S SIMPLE:
YOU END UP
WITH A BETTER
FACILITY**

**MORE
FUNCTIONAL
FOR THOSE
WHO WILL
USE IT**

**MORE COST
EFFICIENT**

SERVICES WE OFFER

Cornerstone's subject matter experts help facility owners through a continuous quality improvement process to harmoniously optimize people, environment, material, equipment, and process.

EQUIPMENT

- Automation & Robotics Integration
- Equipment Planning & Deployment Coordination
- Quality Systems & Equipment Management Plans

ENVIRONMENT

- Facility & Physical Space Planning
- Laboratory Decommissioning & Decontamination

PEOPLE

- Business Inception & Continuity Planning
- Design Phase Assistance
- Safety, Regulatory Compliance & Sustainability
- Staff Training & Education



PROCESS

- Existing Laboratory Optimization
- Occupancy Relocation Execution
- Pandemic-Related Operational Assessments
- Workflow Analysis

MATERIAL

- Personal Protective Equipment Supply Assessments
- Supply Chain Logistics

COMPREHENSIVE BIOCONTAINMENT SERVICES



OPERATIONAL EXCELLENCE CONSULTING

Biosafety Expertise From Project Conception Through Ongoing Operations

INSPIRING APPRECIATION



“Cornerstone Commissioning worked with the project team from design through turnover to ensure A/BSL-3 administrative and engineering controls were in place. We invite them back every year to perform our Annual Performance Verification because they understand our building, resolve issues and educate our staff. Facility compliance inspectors are impressed by the outstanding facility performance verification documents.”

MELISSA A. JAMES, MPS, RBP
FACILITY MANAGER / RESPONSIBLE OFFICIAL
PENN STATE UNIVERSITY – PELL LAB FOR ADVANCED BIOLOGICAL RESEARCH

“When Cornerstone identifies a problem during testing, you often provide a way to fix it. That is atypical among commissioning firms.”

SOURCE: SCHNEIDER / CONTROLS MANAGER

“Cornerstone Commissioning brought expertise to the team and provided valuable input throughout the construction and commissioning effort. Dan was proficient to set up, monitor systems and work with our technicians to deliver an efficient and conclusive commissioning process.”

ERNESTO BETANCOURT
SENIOR PROJECT MANAGER, THOMAS JEFFERSON UNIVERSITY

BIOSAFETY CONSULTING TEAM



Dan Frasier, PE, CCP
Principal and CEO

With more than 35 years of experience in mechanical contracting, laboratory controls and business management, Dan leads Cornerstone Commissioning as a premier facility performance firm. He founded Cornerstone in 2001 as a consultancy that

specializes in mission-critical facilities. Today, the firm has successfully completed more than 800 diverse projects. Dan maintains his industry knowledge by active involvement on projects, as well as industry committee work for the National Institutes of Health Design Requirements Manual, the ANSI/ASSE Z9.14 BSL3 Facility Standard, and industry training.



Dan Cook, LEED AP
Director of Critical Projects

Dan successfully leads the commissioning process for some of Cornerstone's most stringent laboratory and mission-critical projects, and is the firm's go-to for completing annual performance verifications for biocontainment laboratories.

He has in-depth experience applying detailed system analysis and testing protocols to MEP, life-safety and building control systems. He leverages this knowledge to efficiently resolve systems issues and deliver buildings with exceptional performance.



**J. Paul Jennette, MS, PE,
RBP, CBSP**
Biosafety Consultant

Paul has over 20 years of hands-on experience in biocontainment operations, from programming, design, renovation and commissioning through performance verification, decontamination, and maintenance. Paul is an effective

trainer in the fields of biosafety and biocontainment facility design and operation. He is fluent in all aspects of biocontainment operations, including research lab and animal facilities as well as diagnostic lab and necropsy facilities. Paul also has extensive experience with biohazardous waste treatment, including medical, carcass, and liquid waste streams. Recently, Paul has added a variety of COVID-19 related experience to his portfolio, including identifying containment systems for animal housing and scientific equipment as well as developing enhanced procedures for research, diagnostic, and clinical operations. Paul's consulting experience spans training, program development, and a range of operational readiness support for a range of clients.

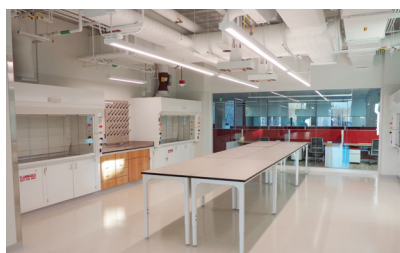


**Aurel Tamburri, MHM, MLS,
CRSP, D.OHS**
**Laboratory Operations
Consultant**

Aurel brings over 25 years of experience in numerous areas of laboratory operations including biocontainment, diagnostic services, financial & business planning, organizational design, quality &

safety systems and environmental management. In addition to this he has experience in regulatory compliance, capital planning, workflow analysis and logistics operations in the public healthcare sector with expertise in operational and strategic planning for large multi-site diagnostic and research laboratories. This enables him to provide direction and knowledge to implement problem solving techniques to simplify complex challenges.

CLIENTS' FIRST CHOICE



Univ. of CA Davis, New Virology & Immunology Lab



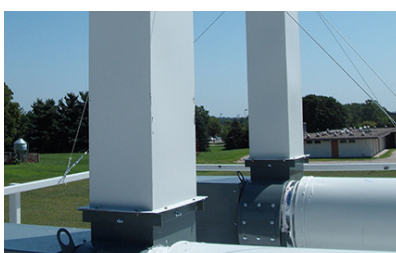
Univ. of Louisville, Center for Predictive Medicine, Lab Expansion



North Dakota State Univ., Ag. Service Ctr. Greenhouse Complex, BLP-3 Bldg.



Tufts New England Reg. Biosafety, New Lab Bldg. & APVs



Iowa State Univ., ABSL-3 and BSL-3 Modular Labs



Univ. of CA Davis, J1 ABSL-3 Vivarium



Tufts, Arnold BSL-3 Lab



Penn State, New Pell ABSL-3 Lab for Advanced Biological Research



Vaccine Gene Therapy Institute, BSL-3 Labs



UMass Amherst Morrill 1, BSL-3 Lab



USDA, Ames Facility Modernization



NIH, NIAID Bldg. 33, New Biomedical Research Facility

COLLABORATING WITH YOU

EXISTING BSL-3 FACILITY

Is your facility experiencing any of these issues?

- Risk assessment revision
- Equipment/technology advancements
- Training needs
- Supply chain limitations
- Ventilation problems
- Building control system optimization needs
- Workflow inefficiencies
- Decontamination challenges

If so, call us and we'll do a quick assessment to figure out how to get your lab working the way it needs to for the users who rely on it. We can also help you ensure it passes annual performance verification.

REACH OUT TO:

Roger Griffith

469-674-9217

rgriffith@mts-hvac.com

www.mts-hvac.com

NEW BSL-3 FACILITY

Or, if you have a new BSL-3 facility that's being built, we can help you with:

- Operational readiness planning
- Building control system sequences
- Unique design options that improve usability and save money, space and energy
- Meeting USDA, CDC, NIH, AAALAC and other BSL-3 facility performance requirements
- Observing and documenting the performance of all systems after installation

We'll collaborate with you to help deliver a fully functional, biocontainment facility that surpasses expectations.



GET IN TOUCH

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TSS FAMILY OF COMPANIES