

# Biological Safety, Global Biosecurity, and Quality



**MITRE's Biological Safety, Global Biosecurity, and Quality capability leverages MITRE's expertise in systems engineering and our team's experience in biosafety, biosecurity, and laboratory operations and quality.**

Biological Safety, Global Biosecurity, and Quality answers the needs of today's government and meets the biosecurity, biosafety, and biodefense needs of the future to solve problems for a safer world. MITRE's expertise directly aligns with the goals and objectives outlined in the National Biodefense Strategy and Implementation Plan for Countering Biological Threats, Enhancing Pandemic Preparedness, and Achieving Global Health Security (NSM-15).

*"The United States will work with domestic and international partners to prevent laboratory accidents by strengthening biosafety laboratory capacity, reinforcing norms of responsible conduct for biological research, and accelerating biosafety and biosecurity innovation in the United States and abroad. These efforts include galvanizing support for multilateral biosafety and biosecurity commitments, and establishing international mechanisms to enhance biosafety and biosecurity globally."*

*-NSM-15 Factsheet*

*For information about MITRE's Biological Safety, Global Biosecurity, and Quality expertise and capabilities, e-mail [bio@mitre.org](mailto:bio@mitre.org).*

**As novel biosecurity and biosafety concerns emerge, the MITRE team is ready for the challenge of whatever comes next.**

MITRE's mission-driven teams are dedicated to solving problems for a safer world. Through our public-private partnerships and federally funded R&D centers, we work across government and in partnership with industry to tackle challenges to the safety, stability, and well-being of our nation.

# Biological Safety, Global Biosecurity, and Quality

## A Multidisciplinary Team United for Evidence-Based Solutions

Biological Safety, Global Biosecurity, and Quality brings together a multidisciplinary team to meet the challenges faced by federal agencies.

MITRE has deep expertise in:

- Audits, assessments, reviews, and evaluations
- Biosafety, biosecurity, and biodefense
- Laboratory quality and operations
- Clinical laboratory medicine
- Epidemiology and biosurveillance
- International security and counterterrorism
- One Health
- Weapons of mass destruction and nonproliferation
- Laboratory design

## Solving Problems for a Safer World

**Evaluation Frameworks:** MITRE has experience developing and executing defensible, evidence-based evaluation frameworks. Our evaluation experts transformed a congressionally mandated process for assessing partner nation use of counter-WMD assistance into a rigorous, data-driven operational evaluation program. Evaluation findings now enable government sponsors to act in near real time on recommendations. USG officials have the ability to use these MITRE products as an input into their planning, strategy, and acquisitions processes.

**Independent Assessments:** MITRE designs and conducts audits to assess compliance to regulatory requirements, international standards (such as ISO 17025), and best practices in workplaces both inside the U.S. and abroad.

**Virtual Audits:** MITRE recently innovated its evaluation process to perform virtual audits during the COVID-19 pandemic. MITRE developed a virtual assessment methodology, white paper, and successfully piloted these methods in three countries.

**Laboratory Design Review:** MITRE subject matter experts can review designs for laboratory spaces of any biosafety level to identify problems in facility design and assess ability to meet quality standards and regulations. Our experts have experience evaluating multiple LIMS platforms, designs which enhance laboratory sample processing, chain of custody procedures, and quality assurance programs.

**MITRE's work program includes independent evaluations, audits, laboratory design reviews, and expert consultation.**

MITRE's mission-driven teams are dedicated to solving problems for a safer world. Through our public-private partnerships and federally funded R&D centers, we work across government and in partnership with industry to tackle challenges to the safety, stability, and well-being of our nation.

*For information about MITRE's Biological Safety, Global Biosecurity, and Quality expertise and capabilities, e-mail [bio@mitre.org](mailto:bio@mitre.org).*