



International

BIOLOGICAL THREAT REDUCTION

Enhancing US and International Security by Reducing Biological Threats Globally

Overview

Sandia National Laboratories provides innovative, science-based, systems-engineering solutions to the United States' most challenging national security problems.

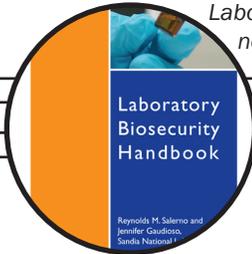
Sandia's Global Security Programs reduce proliferation and terrorism threats to US national security through global technical engagement.

International Biological Threat Reduction, a division of Sandia's Global Security Programs, enhances United States and international security by reducing biological threats worldwide.

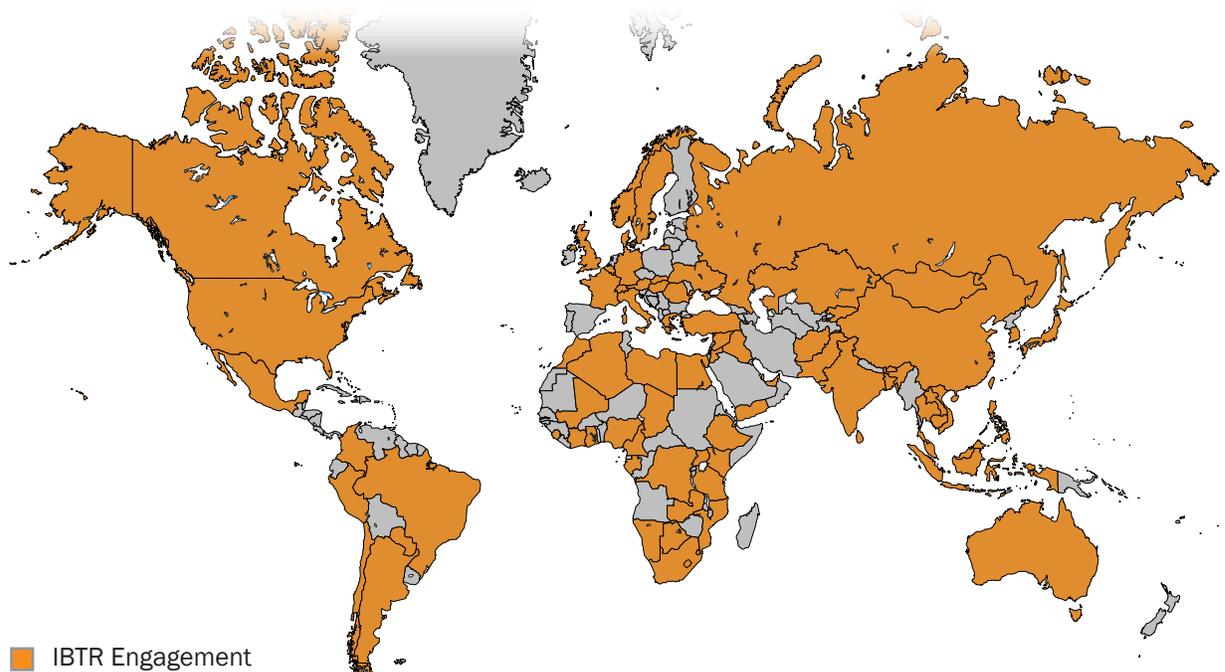
Goals

The highest goals of Sandia's International Biological Threat Reduction program are:

1. Promote the responsible use of biological agents, equipment, and expertise at bioscience facilities.
2. Strengthen capacities to detect and control dangerous biological agents.
3. Improve understanding and mitigation of accidental and deliberate biological risks.



*Laboratory Biosecurity Handbook
now available at amazon.com*



For more information, visit us online at <http://www.biosecurity.sandia.gov>



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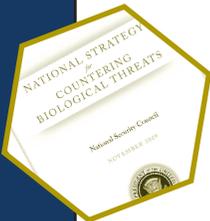
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International Biological Threat Reduction works across the globe to protect against the accidental or intentional misuse of the life sciences to harm people, agriculture, or other critical resources.



IBTR Unique Technical Capabilities

- Laboratory biorisk assessments for both biosafety and biosecurity
- Implementation of laboratory biorisk systems
- Implementation of laboratory biosecurity systems
- Integrated systems approach to biothreat identification, prevention, and response
- Development of structured decision-analysis tools for understanding biothreats



IBTR Supports the Implementation of the 7 Objectives of the US National Strategy for Countering Biological Threats

- Objective 1: Promote global health security
- Objective 2: Reinforce norms of safe and responsible conduct
- Objective 3: Obtain timely and accurate insight on current and emerging risks
- Objective 4: Take reasonable steps to reduce the potential for exploitation
- Objective 5: Expand capabilities to prevent, attribute, and apprehend
- Objective 6: Communicate effectively with all stakeholders
- Objective 7: Transform the international dialogue on biological threats



Examples of IBTR Program Initiatives

- Developing risk assessment methodologies for assessing laboratory biosafety and biosecurity risks
- Designing and implementing modern molecular diagnostics to enhance infectious disease detection, and reduce reliance on live, dangerous biological agents
- Interacting with international partners, professional associations, and international organizations to develop and promulgate norms for managing laboratory biorisks
- Conducting training on biothreats and biorisk mitigation strategies for various stakeholders, including laboratory managers, scientists, policy makers, law enforcement officials, and laboratory inspectors
- Performing country and regional studies that focus on highly infectious diseases, and the bioscience technologies, expertise, and infrastructure around the world to combat those diseases
- Developing systematic approaches to prioritize biological threats worldwide, and identifying the best technical solutions to mitigate those threats
- Supporting partners around the world in the sustainable implementation of risk-based laboratory biosafety and biosecurity and molecular diagnostics practices

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