

Biosafety

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<http://www.glrce.org/biosafety/>



This education program seeks to increase awareness of biological hazards encountered in biodefense and emerging disease research laboratories, to provide a scientific basis for assessing risks associated with this research, to provide guidance on recommended practices and to promote the development of required skills to work safely with human pathogens. The object of safety awareness and practice is to assure laboratory and support personnel that with proper precautions, equipment and facilities-biohazardous materials can be handled without undue risk to themselves, their associates, their families, and the environment.

This program is intended trained microbiologists, clinicians, scientists trained in other disciplines and other individuals involved, either directly or indirectly, with biodefense or emerging disease research.

The safety principles promoted are based on scientific risk assessment, sound safety practices, common sense, good housekeeping, thorough personal hygiene, and a plan for responding to accidents. It is likely that laboratories that are well organized and procedurally disciplined are not only effective scientifically, but also safe.

The GLRCE Biosafety Scholar/Research Program

- 1 year in Biosafety program management, opportunity to participate in a research program working with pathogenic microorganisms, with emphasis on select agents.
- Training Program Objective: establish and supervise biosafety programs in a variety of research settings, especially those with associated biocontainment facilities.
focus on applied Biosafety research partnerships with GLRCE investigators in BSL3/ABSL3 laboratories and will feature the Howard T. Ricketts Regional Biocontainment Laboratory at Argonne National Labs.
- Actively participate in the day to day operations of a biosafety officer, with emphasis on biological risk assessment and biocontainment operations.
- Rotations with select individual GLRCE investigators /veterinarians and biocontainment facilities staff as well as with institutional programs at the University of Chicago and other GLRCE affiliated institutions.
- First Hand experience in working with Institutional Biosafety and Institutional Animal Care and Use Committees, Environmental Health and Safety and the Animal Resources Center.
- Biological risk assessment/management, including animal models of disease , work at high containment (BSL3/ABSL3).
- Key role in development and delivery of the GLRCE Cognitive and Practical Biosafety Education for the Host-Pathogen Investigator, a Biosafety training program designed for GLRCE investigators.

The biosafety program works in conjunction with the Howard Taylor Ricketts Laboratory, which is a part of the National Strategic Plan for Biodefense and Infectious Disease Research, headed by the National Institutes of Health. This facility is designed, managed, and operated to protect laboratory workers and the surrounding community from accidental exposure to any infectious agents. The Ricketts Lab provides needed biocontainment space to researchers and promote the advancement of knowledge in the disciplines of biodefense and emerging infectious diseases.

