



10. AI-Enabled Lab Safety: A Hands-On Workshop for Researchers and Biosafety Professionals

A distance learning opportunity

August 5, 2026

12:00 – 2:00 PM (CDT)

Instructors:

Imke Schroeder, PhD, University of California—Los Angeles, Los Angeles, CA

Overview

Artificial intelligence (AI) chatbots are emerging as practical tools to support biosafety and biosecurity programs in communication, hazard analysis, and risk assessment. This interactive two-hour webinar introduces biosafety professionals to responsible and effective use of text-based AI tools to enhance safety documentation and experimental risk evaluations. Participants will learn how to apply AI to break laboratory workflows into task-level hazards, exposure pathways, and control measures aligned with regulatory frameworks and the hierarchy of controls. The session will demonstrate how chatbots can streamline SOP development, risk narratives, incident summaries, and plain-language training materials while maintaining compliance. Emphasis is placed on prompt design strategies for producing structured, reliable outputs. Hands-on exercises guide participants in refining prompts, validating AI-generated content, and addressing biosecurity and data governance considerations. Attendees will leave with practical workflows and reusable prompt templates to integrate AI into biosafety and security operations.



Objectives

- Apply AI chatbots to support biosafety communication and documentation
- Use structured prompting techniques to analyze biological hazards and risks controls
- Evaluate AI-generated outputs for accuracy, compliance and biosecurity considerations

Audience Level: Basic/Intermediate

Suggested Background: None

Who Should Attend: Biosafety and Biosecurity professionals in government, industry, academic and other institutions/organizations

Course Logistics: Course is one 2-hour session. Attendees will need to log on 15 minutes prior to the start time. To receive credit and a certificate, attendees must attend the session and complete or access all course modules. The course materials are for **registered participants only**.

Course Fees: ***ABSA Member:** \$175 **Non-Members:** \$265
* To receive the ABSA member rate, participants must be current ABSA members during the training year. Fees include course handouts, access to the ABSA International training site, and 2 hours of expert-led interactive instruction.

Credits: This course has been approved for **0.25 CM points** toward RBP/CBSP recertification. *ABSA International is approved as a provider of continuing education programs in clinical laboratory sciences by the ASCLS P.A.C.E.[®] Program. This course is approved for **2.0 P.A.C.E.[®] contact hours**. Course access links are unique and for individual use only. **Sharing is prohibited**. Duplicate logins or unregistered attendees will be removed from the webinar without a refund.

Questions: Contact: Kari DeServi, MEd, Director of Education, ABSA Office, 866.425.1385 (toll free)
Email: education@absa.org

Register: **By phone:** (866) 425-1385 or **Online:** www.absa.org
Confirmed, paid participants will be sent detailed information regarding the course within a few days prior to the course. Substitutions allowed with notice by 7/9/2026. There is a 15% processing fee for cancellations prior to 7/16/2026. No refunds after 7/16/2026.