



## Susan Caskey

Research and Systems Analyst

**Sue Caskey** is a research and systems analyst at Sandia National Laboratories. One of the founding members of Sandia's Global Chemical and Biological Security program, she has nearly 25 years of international security expertise and has supported work in more than 25 countries. Sue is currently the lead for analytical projects on global threat prioritization and risk assessment across the entire chemical, biological, radiological, and nuclear (CBRN) domain—including dual-use equipment. In direct support of U.S. DoS, DOE, and DOD cooperative threat reduction efforts, this work involves developing unique models and tools to characterize current and emerging global threats. Sue is also working on various technical threat reduction efforts with the Organisation for the Prohibition of Chemical Weapons and the World Health Organization. As part of her activities at Sandia National Laboratories, Sue has created an ad hoc working group to better support global analysis and data management, focusing on cross-domain global threats.

For domestic and international partners, Sue conducts agent-based analysis, safety, and security assessments. In this domain, she has designed and tested the implementation of engineering controls, physical security systems, cyber security systems, and personal reliability programs at facilities around the globe. She has also designed and implemented network-based, disease surveillance systems for humans and animals; and designed and developed the model and software for the BioRAM and Chem-SAM tools—both recommended by the U.S. DHS and Centers for Disease Control and the World Health Organization.

With B.A. degrees in Biology and Computer Science from the University of New Mexico and an M.E. in Systems Engineering from Old Dominion University (ODU), Sue is currently working toward her Ph.D. in Systems Engineering (from ODU) with a specific interest in complex systems, risk, and decision analysis. As part of her academic interests, she has also become active in IEEE and INCOSE and continues to be a member of the Society of Risk Analysis.

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