



Profiles of Professionals

Lisa M. Sweeney, Ph.D., DABT, of *The Sapphire Group™*, is a toxicologist with a broad range of experience in the application of toxicology, chemistry, and engineering to problems in the health and environmental sciences. She has over seven years experience in risk assessment, pharmacokinetics, and biochemical engineering from a variety of private sector and non-profit backgrounds and her responsibilities involve applied toxicology including the development and refinement of physiologically-based pharmacokinetic (PBPK) models and their application to risk assessment.

Other risk assessment experience includes calculating of human health risks from exposure to compounds found in manufacturing and maintenance environments in accordance with U.S. EPA guidance. Additionally, Dr. Sweeney has assisted pollution prevention efforts by providing comparative environmental, safety, and occupational health analyses of baseline and alternative products. Dr. Sweeney also worked to implement assessment of the biological effects of contaminated soil and groundwater. Compounds with which she has experience include 1,3-butadiene, isoprene, ethylene oxide, ethylene glycol ethers, naphthalene, chromium, and total petroleum hydrocarbons (TPH).

Dr. Sweeney received her bachelors degree in Chemical Engineering from Case Western Reserve University and her doctorate in Chemical Engineering with a minor in Toxicology from Cornell University. In addition, Dr. Sweeney has specialized training in project management, chemical metabolism, physiologically based pharmacokinetic modeling, chemical dosimetry, and ecological risk assessment. Dr. Sweeney is currently a member of the Society of Toxicology, American Institute of Chemical Engineers, American Chemical Society, Society for Risk Analysis, Tau Beta Pi, Institute of Hazardous Materials Management, American Board of Toxicology and has received professional recognition from the National Science Foundation, National Institutes of Health, and Cornell University.