

Kara L. Kruse

Research Staff, Modeling and Simulation Group
Computational Sciences and Engineering Division
Oak Ridge National Laboratory
Oak Ridge, TN 37831-6085, USA
Phone: (865) 574-5154
Fax: (865) 576-0003
Email: KruseKL@ornl.gov

Kara Kruse is a Research Staff professional in the Modeling and Simulation Group in the Computational Sciences and Engineering Division at Oak Ridge National Laboratory. She has over twenty-five years experience in computer modeling and simulation and software development. Areas of experience include 1) computational engineering simulations of heat transfer, mechanical stress, and/or fluid dynamics; 2) sensitivity analysis of model parameters and verification and validation of military conflict simulation models, 3) biomedical engineering simulations of vascular and pulmonary systems, and 4) software design and development of numerical codes, graphical user interfaces (GUIs), and client/server database applications in various programming languages including C#/.NET, C++/MFC, C/Motif, Java, and FORTRAN.

Ms. Kruse has a B.S. in Physics, Biology, Math and Chemistry from Northwestern State University of Louisiana, a M.S.E. in Biomedical Engineering from Case Western Reserve University, and a M.S.E. in Engineering Science and Mechanics from the University of Tennessee, Knoxville. She is highly active in mentoring students through the Student Laboratory Undergraduate Internship (SULI) and Research Alliance in Math and Science (RAMS) programs.