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Kristine Cochran is an Engineering Researcher in the Computational Sciences and Engineering Division at Oak Ridge National Laboratory. Her background is in computational solid mechanics including fatigue and fracture simulation, constitutive modeling, and structural analysis.

Dr. Cochran works in the NRC-sponsored Heavy-Section Steel Technology (HSST) program. Her primary focus is the development and verification of a dislocation mechanics-based fracture model for ferritic steels in the transition temperature region. This model, implemented in the DISFRAC computer code, seeks to capture the fracture toughness-versus-temperature relationship (Master Curve) using fundamental physical principles.

Kristine's degrees are in civil engineering, including a B.S. from Johns Hopkins University and M.S. and Ph.D. degrees from the University of Illinois at Urbana-Champaign. She was a recipient of the Department of Energy Computational Science Graduate Fellowship (DOE CSGF) and has served as a Visiting Assistant Professor at the University of Illinois. Additionally, she has worked in industry as a structural engineer for URS Corporation and Wiss, Janney, Elstner Associates.