



**Dona L. Crawford**  
**Associate Director of Computation**  
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Ms. Crawford is responsible for a staff of roughly 900 who develop and deploy an integrated computing environment for petascale simulations of complex physical phenomena such as understanding global climate warming, clean energy creation, biodefense, and non-proliferation. This environment includes high performance computers, scientific visualization facilities, high-performance storage systems, network connectivity, multi-resolution data analysis, mathematical models, scalable numerical algorithms, computer applications, and necessary services to enable Laboratory mission goals and scientific discovery through simulation. An icon for the computing environment provided is the

Advanced Simulation and Computing (ASC) Program's BlueGene/Q Sequoia machine (peak 20 quadrillion floating-point operations per second (PF)). This is among the fastest computers in the world

Ms. Crawford has served on advisory committees for the National Research Council and the National Science Foundation. She is Co-Chair of the CRDF Global Board, Co-Chair of the Council on Competitiveness High Performance Computing Advisory Committee, and a member of IBM's Deep Computing Institute's External Advisory Board. She is a member of the Institute of Electrical and Electronics Engineers (IEEE) and the Association for Computing Machinery (ACM), and participates in community outreach activities to promote math and science. She has a master's degree in operations research from Stanford University and a bachelor's degree in mathematics from the University of Redlands, California.

Dona was named 2005 Woman of the Year in Science in Alameda County and received the Computerworld Honors Award in 2006. In November 2010, Dona was featured as one of *insideHPC's* "Rock Stars of HPC." Her undergraduate alma mater, presented her with the "Alumni Career Achievement Award" in 2012, and HPCwire named her among their 2013 People to Watch.