

**Dr. Kirk E. Jordan
Biography**

Dr. Kirk E. Jordan, Emerging Solutions Executive in the Computational Science Center at IBM T.J. Watson Research Center, has more than 25 years experience in high performance and parallel computing. The Computational Science Center is addressing the challenges involved in achieving Petascale and Exascale performance on IBM's very high end system platforms, running real workloads to obtain significant results in science, engineering, business and social policy, and partnering and collaborating with key IBM clients on the most challenging applications and workloads on these large systems. He oversees development of applications for IBM's advanced computing architectures, investigates and develops concepts for new areas of growth involving high performance computing (HPC), and provides leadership in high-end computing and simulation in such areas as computational fluid dynamics, systems biology and high-end visualization. At IBM, he held several positions promoting HPC and high performance visualization, including leading technical efforts in the Deep Computing organization within IBM's Systems and Technology Group, managing IBM's University Relations SUR (Shared University Research) Program and leading IBM's Healthcare and Life Sciences Strategic Relationships and Institutes of Innovation Programs. A Ph.D. in Applied Math, he held computational science positions at Exxon R&E, Argonne National Lab, Thinking Machines and Kendall Square Research before joining IBM in 1994. A Research Affiliate in MIT's Department of Aeronautic and Astronautics, he holds leadership positions in the Society for Industrial and Applied Mathematics (SIAM), including Vice Chair of Computational Science and Engineering SIAG and the Committee on Science Policy. He is on several boards including Math Biosciences Institute's Board of Trustees at The Ohio State University, Board of the National Professional Sciences Master's Association, and the International Advisory Board for the Systems Biomedicine Institute at Shanghai Jaio Tong University. He is associate editor of several international journals and Guest Editor for two recent issues of IBM's Journal for Research and Development.