

Rick L. Stevens

Rick L. Stevens is Associate Laboratory Director of Computing, Environment, and Life Sciences at Argonne National Laboratory, which is the U.S. Department of Energy's (DOE's) oldest lab for science and energy research. He heads Argonne's computational genomics program and co-leads the DOE laboratories planning effort for exascale computing research. He is a professor of computer science at the University of Chicago (UChicago) and is involved in several interdisciplinary studies at the Argonne/UChicago Computation Institute and at the Argonne/UChicago Institute for Genomics and Systems Biology, where he holds senior fellow appointments.

Stevens is co-principal investigator, chief technical officer, and chief architect of the DOE Systems Biology Knowledgebase project, an emerging software and data environment designed to enable researchers to collaboratively generate, test and share new hypotheses about gene and protein functions, perform large-scale analyses on a scalable computing infrastructure, and model interactions in microbes, plants, and their communities. Stevens is also co-principle investigator for the NIAID Bioinformatics Resource Centers program where his group has developed computational tools and genomics databases to support infectious disease research.

Stevens is interested in the development of innovative tools and techniques that enable computational scientists to solve important large-scale problems on advanced computers. His research focuses on two principal areas: high-performance computer architectures, and computational problems in the life sciences. In addition to his research work, Stevens teaches courses on computer architecture, collaboration technology, parallel computing, and computational science. He serves on many national and international advisory committees and still finds time to occasionally write code and play with his 3D printer.