

Robert Roser, PhD

Chief Information Officer, Fermi National Accelerator Laboratory (Fermilab)

Robert "Rob" Roser is an experimental particle physicist and a distinguished member of the scientific staff at Fermi National Accelerator Laboratory (Fermilab), America's premier particle physics laboratory located near Chicago Illinois.

Currently, Roser serves as the laboratory's Chief Information Officer (CIO). In this role, Roser is responsible for both the scientific computing as well as information technology (IT). Ensuring the laboratory's scientific programs have the computing hardware, software, data acquisition and electronics support needed to achieve the optimum level of success as well as provide the laboratory operations teams with the automated business systems and IT services they require to operate efficiently and effectively is the mission of computing. With a data center currently with at 5 MW capacity and the ability to currently store nearly an Exabyte of data, Roser oversees daily computing operations at Fermilab and develops strategy to enable current and future ambitious experimental endeavors. He is also leveraging Fermilab's "big data" and algorithm expertise to help other scientific programs.

Prior to this assignment, Roser led the Collider Detector at Fermilab (CDF) experiment, the experiment at Fermilab's Tevatron colliding beam accelerator for much of the last decade. Consisting of more than 700 scientists from 60 academic institutions across 15 countries, the CDF collaboration is best known for the discovery of the Top Quark; and, along with its sister experiment, D-Zero, CDF found first evidence of the long sought after Higgs Boson. Under Roser's leadership the experiment published ~450 scientific papers in that span.

Dr. Roser received his bachelor's degree from the University of Connecticut and his doctorate from the University of Rochester; he was a post-doctoral research associate at the University of Illinois at Urbana-Champaign before joining Fermilab as a Wilson Fellow. He is a member of numerous scientific advisory panels, a fellow of the American Physical Society and is the author of over 650-refereed

publications. He currently resides in Elburn, Illinois, with his wife and two spoiled Brittany pups.