

SOS27 Workshop

Speaker first name, last name, and affiliation:

Christian Engelmann, Oak Ridge National Laboratory

Presentation title: “The Federated Computing Environment for Autonomous Smart Laboratories”

Biography (max 700 characters, space included):

Dr. Christian Engelmann is a Senior Computer Scientist and leads the Intelligent Systems and Facilities research group. He has 24+ years experience in software R&D for extreme-scale high-performance computing systems. His research solves computer science challenges, such as scalability, dependability, and interoperability. His primary expertise is in HPC resilience, i.e., efficiency and correctness in the presence of errors, and failures. His secondary expertise is in system software for the instrument-to-edge-to-Cloud-to-center computing continuum, enabling science breakthroughs with autonomous experiments, self-driving laboratories, smart manufacturing, and artificial intelligence driven design, discovery, and evaluation.