RADIUSS aims to strengthen a versatile HPC software stack and broaden its usage at LLNL and across the scientific application community.

RADIUSS projects are already in broad use within Lab programs and/or with external sponsors, and all are open source and available as source code.

This software reduces overheads for application teams, provides a pathway to next-generation architectures, and builds a knowledge repository of local expertise.
APPLICATION INFRASTRUCTURE
Provide unified data storage and parallel logging solutions
Rich Hornung hornung1@llnl.gov

BUILD TOOLS
Automate and simplify complex dependencies and deployments
Todd Gamblin gamblin2@llnl.gov

DATA MANAGEMENT & VISUALIZATION
Manage visualizations with robust features and configurable analysis
Cyrus Harrison harrison37@llnl.gov

MATH & PHYSICS LIBRARIES
Optimize solvers, higher order methods, and AMR frameworks
Tzanio Kolev kolev1@llnl.gov

PERFORMANCE & WORKFLOW
Manage and scale complex workflows, tracking, and data collection
Matthew Legendre legendre1@llnl.gov

PORTABLE EXECUTION & MEMORY MANAGEMENT
Automate data motion and memory allocation on advanced architectures
David Beckingsale beckingsale1@llnl.gov

Stay tuned to announcements about workshops, training, releases, and more: radiuss-announce@llnl.gov

Have questions or want to know more about how RADIUSS can help you? radiuss-request@llnl.gov