



Rapid Application Development via an
Institutional Universal Software Stack

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
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BUILD TOOLS

Automate and simplify complex dependencies and deployments

Todd Gamblin
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DATA MANAGEMENT & VISUALIZATION

Manage visualizations with robust features and configurable analysis

Cyrus Harrison
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MATH & PHYSICS LIBRARIES

Optimize solvers, higher order methods, and AMR frameworks

Tzanio Kolev
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PERFORMANCE & WORKFLOW

Manage and scale complex workflows, tracking, and data collection

Matthew Legendre
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PORTABLE EXECUTION & MEMORY MANAGEMENT

Automate data motion and memory allocation on advanced architectures

David Beckingsale
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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