

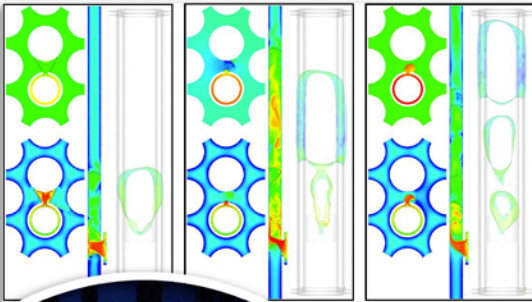
North Carolina State University

NCSU has a proven record of working with industry and government to advance research in support of solving nuclear industry challenges.

CASL
Core Partner

Key contributions

- Uncertainty quantification and data assimilation
- Fuel cladding material performance
- Multiphysics coupling
- Fluid dynamics upscaling
- STEM education



Key outcomes

- Nuclear power plant margin management using best estimate plus uncertainty prediction capability
- Fuel cladding enhanced designs by way of more fundamental understanding
- Multiphysics simulations made possible by computationally efficient algorithms
- Workforce readiness to utilize CASL capabilities developed

