

# National Nuclear Security Administration

Program Website <https://www.energy.gov/nnsa/national-nuclear-security-administration>

Established by Congress in 2000, NNSA is a semi-autonomous agency within the U.S. Department of Energy responsible for enhancing national security through the military application of nuclear science. NNSA maintains and enhances the safety, security, and effectiveness of the U.S. nuclear weapons stockpile without nuclear explosive testing; works to reduce the global danger from weapons of mass destruction; provides the U.S. Navy with safe and effective nuclear propulsion; and responds to nuclear and radiological emergencies in the U.S. and abroad.

## Research Priority Areas:

### Academic Programs

The NNSA Predictive Science Academic Alliance Program (PSAAP) engages with the U.S. academic community to advance science-based modeling and simulation technologies – with special focus on validation, verification, uncertainty quantification, and readiness for exascale computing. More information can be found at <https://psaap.llnl.gov/>