**NSRI & UNIVERSITY OF NEBRASKA CAPABILITIES**

NSRI, with research faculty at the University of Nebraska, is poised to support the top national priority of nuclear deterrence and risk reduction through a range of research areas.

### ACADEMIC WARGAMING CENTER

- Academic-focused exploration of wargaming as a learning tool
- Participants can test theories about complex, real world problems
- Enables creativity with no pre-defined, “textbook” solutions
- Failure is allowed (and encouraged) to gain insights
- Provides an experiential leadership and group dynamics laboratory

### ARMS CONTROL AND NONPROLIFERATION

- Treaty monitoring technology R&D
- Arms control policy research
- Nonproliferation threat analysis
- Nuclear nonproliferation detection R&D
- Treaty break-away potential
- Relevant net assessments to support future diplomatic efforts

### ENTERPRISE SUPPORT TECHNOLOGIES

- NC3 technology R&D
- NC3 concepts and architecture
- High-performance non-nuclear materials research
- Non-nuclear component advanced manufacturing research
- Nuclear security, certification research

### WEAPONS POLICY

- Foreign threat analysis
- Deterrence, assurance requirements
- Conceptual weapon design
- Strategic materials production

### CONSEQUENCE MANAGEMENT

- Precision nuclear forensics
- Nuclear detection technologies
- Hazard modeling
- Disaster mitigation research
- Radiological decontamination and medical countermeasures

### CONFLICT DETERRENCE AND ESCALATION DYNAMICS

- Table top exercises
- Nuclear conflict wargames
- Escalation dynamics model development
- Decision support tools
- Nuclear deterrence education
- Operational, tactical planning support