



SRI's multidisciplinary teams are dedicated to development and application of operationally effective systems for the U.S. Navy.

## U.S. Navy's R&D Partner

SRI International, an independent, nonprofit research institute, has partnered for decades with the U.S. Navy to meet imperative needs. Technologies and programs developed for the Navy range from environmental impact assessments to satellite calibrations and torpedo optimization.

SRI will work with you to

- Meet demands for national security and force protection
- Enter new fields and expand promising areas
- Launch new programs

In the past decade alone, SRI has performed \$2 billion in contract R&D for the U.S. Government. SRI's clients include all branches of the U.S. Armed Forces; the Defense Advanced Research Projects Agency (DARPA); and the National Guard.

### CAPABILITY AREAS

#### MARINE TECHNOLOGY

- Advanced sensors and instrumentation for surface and subsurface marine environments, supporting moored, surface and bottom instruments
- Instrumentation for free-floating vertical profilers, remotely operated vehicles (ROVs), autonomous underwater vehicles (AUVs), and microsystems
- Sensor technology and demonstration in support of the Center for Maritime and Port Security

#### FORCENET

- Communications engineering
- Advanced protocols
- Network security

#### INTELLIGENCE, SURVEILLANCE, AND RECONNAISSANCE (ISR)

- Over-the-horizon radar
- Signals intelligence
- Electronic counter-countermeasures
- Data extraction and analysis
- Cyberdefense technologies
- Collaborative intelligence analysis
- Intelligent algorithms
- Knowledge management tools
- Force protection
- Lightweight armor for blast protection
- Bomb protection at a distance
- Remote test site

#### SPEECH TRANSLATION

- Two-way voice-based language translation, including Iraqi Arabic
- Management of the DARPA NIGHTINGALE program to design software that absorbs, analyzes, and interprets huge volumes of text and speech in multiple languages

#### COMBAT TRAINING SUPPORT

- Simulation architectures
- Live training instrumentation and after-action review
- Live, virtual, constructive integration

#### ENVIROTECHNICAL SERVICES

- Site alternatives review and facility planning support
- National Environmental Policy Act (NEPA) documents and related environmental compliance services
- Environmental and Natural Resource agency consultations
- Permit applications and approvals (i.e., endangered/threatened species, wetlands fill/dredge, coastal zone federal consistency determinations, clean air act conformity determinations)



SRI helps the United States Navy meet its strategic goals for security and defense.

- State Historic Preservation Office consultations
- Public and community outreach
- Regulatory analyses
- FAA Air Space compliance
- Analysis of personnel exposure levels to radio frequency emissions
- RF hazards to ordnance and fuel handling
- Electromagnetic compatibility and frequency assignments
- Storm Water Pollution Prevention Plans

#### RECENT PROJECTS

##### UNDERWATER MASS SPECTROMETRY

For the U. S. Office of Naval Research, we have developed in situ mass spectrometry systems capable of real-time, adaptive in-water analyses.

##### SATELLITE CALIBRATIONS

For the Naval Research Laboratory, SRI has performed satellite calibrations utilizing calibrated transmissions from SRI's 150-foot-diameter radio antenna located in the hills above Stanford University.

##### COASTAL RADAR

For the Navy Surface Warfare Center Dahlgren, SRI conducted tracker development work for CODAR (coastal radar-network), a low-power HF surface wave radar. SRI is subcontractor to a company that conducts research, design, manufacturing and support of high frequency (HF) radar systems primarily for ocean-current and wave monitoring.

##### UNDERWATER MINE TESTING

For the Indian Head Naval Surface Warfare Center, SRI has performed underwater explosive experiments against mines. Using a 30-foot-diameter by 20-foot-deep pool located at SRI's

remote test site, researchers are determining the explosive charge size needed to produce critical damage to a mine.

##### SURF ZONE EXPERIMENTS

For the Office of Naval Research, SRI has performed 1/12-scale experiments in a sand-bottom surf zone pool. The experiments are performed to determine the loading conditions produced by general purpose bombs and the resulting damage to surf zone obstacles and mines.

##### TORPEDO OPTIMIZATION

For the Office of Naval Research, SRI has investigated ways to enhance the lethality of the torpedo's warhead by reducing the guidance and control material located in front of the warhead.

##### NEPA COMPLIANCE SUPPORT

SRI has prepared a number of NEPA documents in conformance with the OPNAVINST 5090.1B, Environmental and Natural Resource Program Manual. Those documents analyzed a broad range of proposed Department of Navy actions, including

- Environmental assessment of Trident I (C-4) Motor Storage at Camp Navajo, Arizona Army National Guard, Bellemont, Arizona
- Environmental assessment of Marine Mammal Security System at Naval Submarine Base Kings Bay, Georgia
- Environmental assessment of Weapons Security Actions at Naval Submarine Base Kings Bay, Georgia
- Environmental assessment of Weapons Security Actions at Naval Submarine Base, Bangor, Washington
- Categorical exclusion from NEPA for proposed security actions at Naval Submarine Base, Bangor, Washington



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