

## Your R&D Partner in Homeland Security

### Innovation in times of critical need

SRI technologies and programs play important roles in U.S. military and civilian efforts to combat terrorism, at home and abroad — from combat training to speech-enabled translation software deployed in Iraq.

Clients include the Department of Homeland Security, the Department of Defense, Defense Advanced Research Projects Agency, National Institutes of Health, National Security Agency, Armed Services, and National Guard. In the past decade alone, SRI has performed \$2B in contract R&D for the U.S. government.

SRI's capabilities in homeland security, include emergency preparedness and first responders, critical infrastructure protection, border and transportation security, chem/bio agent detection and protection, and information analysis and infrastructure protection.

### Information analysis and infrastructure protection

**Cyber Security R&D Center:** For the Department of Homeland Security, SRI administers this government-industry partnership to develop technology to counter cyber threats ([www.cyber.st.dhs.gov](http://www.cyber.st.dhs.gov))

### Information security and threat analysis:

Multilevel software security programs; systems engineering and integration; network intrusion detection software; collaborative intelligence analysis

## Pioneering technology from SRI is helping counter homeland and global security threats.

### Infrastructure security:

Programs to monitor and protect critical information systems such as power grids, air traffic control, and financial systems

**Surveillance:** Video, still image, and text analysis for intelligence extraction; aerial intelligence; asset identification and tracking; in-building tracking of people and objects

**Signal technology:** National intelligence processing and reporting systems; advanced signal processing and geolocation algorithms

**Information operations:** Computer tools, simulations, and networks in support of information warfare and tactical intelligence; simulation suites for intelligence collection systems; offensive and defensive operations programs

**Communications:** System design and development; testbeds; terrestrial and space systems

### First responders

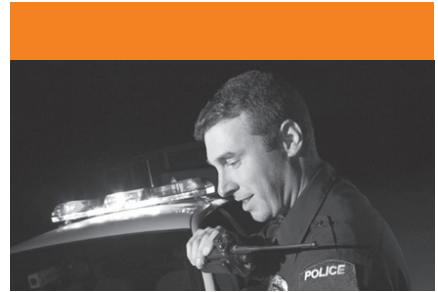
**Emergency response:** Precision GPS navigation; speech-enabled handheld language translation devices; situation awareness

**Rescue operations:** Support systems for covert operations and hostage rescues

**Target location:** Ground- and foliage-penetrating radars from airborne platforms or field vehicles; unexploded ordnance and mine detection and neutralization; differential GPS laser-ranging sextant to obtain real-time target coordinates on unregistered battlefields; GPS for target location

**Networked communications:** Wireless networking to assist small unit operations and unmanned combat air vehicle teams

**National guard training and support:** DFIRST™ (Deployable Force-on-Force Instrumented Range System) readiness training system in use by units in several states; Joint Training Experimentation Program (JTEP), a program that integrates live exercises with computer-based simulators; support for the Army National





Guard's eXportable Combat Training Capability (XCTC); Integrated GPS Radio System (IGRS) dismount and vehicle tracking instrumentation

**Threat assessment:** Threat assessment tools and strategies; identification of potential threats generated directly or indirectly from terrorist acts

### **Critical infrastructure protection**

**Blast protection:** Permeable blast barriers to mitigate effects from explosions; infrastructure collapse assessment tool

**Explosives detection:** Technologies for the detection of explosives in air, water, and solid samples; methods for the remote detection of IEDs

**Hazardous materials detection:** Neutron sources for standoff detection of hazardous radiological materials

### **Chem/bio agent detection and protection**

**Bioweapons detection:** Chemical/biological agent detection to identify, neutralize, and protect against agents in a variety of environments; improved diagnostic tests; preclinical development of anti-infective therapeutics and vaccines

**Bioinformatics:** Tools at the intersection of computers and biology for symbolic analysis of biological pathways and genomic databases

**Decontamination:** Coatings and sprays to decontaminate buildings, furniture, vehicles, etc. from exposure

### **Transportation security**

**Border security:** Video text recognition to passively monitor watercraft, and aircraft; person and asset identification tracking

**Transportation security:** Explosives detection; lightweight ballistic armor for fuselages; explosion-containing luggage containers

**Explosives test site:** SRI operates one of the nation's largest test site facilities available for use on U.S. government, commercial, and foreign government contracts. Experiments performed include explosives detection, weapons effects, hazards and safety, and basic science.

### **Contact us**

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### **About SRI International**

Silicon Valley-based SRI International is one of the world's leading independent research and technology development organizations. SRI, which was founded by Stanford University as Stanford Research Institute in 1946 and became independent in 1970, has been meeting the strategic needs of clients and partners for more than 60 years. The nonprofit institute performs sponsored research and development for government agencies, businesses, and foundations. SRI also licenses its technologies, forms strategic alliances, and creates spin-off companies. In 2008, SRI's consolidated revenues, including its wholly owned for-profit subsidiary, Sarnoff Corporation, were approximately \$490 million.

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