

INNOVATOR

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The Rewards of Analyzing Risk

SRC's RiskTracer Software Provides Security Inside and Out

Protecting borders has taken on a new meaning for the government in today's data driven, Internet-dependent world. Locks and keys are no longer enough to secure our most sensitive resources. A single instance of unauthorized access by an individual with malicious intent could cause damage to our nation's security. Breaches from within an organization are potentially even more devastating due to insiders' knowledge and access to key information. Effectively managing the security clearance process without slowing down the hiring process has become a national priority.

SRC has developed a revolutionary suite of personnel security software tools to protect vital networks and cyberassets, from the inside out, called RiskTracer™. SRC has long been a leader in developing advanced technologies that collect, manage, exploit and analyze information for the federal government and its agencies. With RiskTracer, SRC brings this expertise to all areas of personnel security, including security clearance automation and insider threat detection.

Today, security clearance investigators examine all aspects of an applicant's

background through a costly, time-consuming and often manual process. SRC has developed an automated, intuitive workflow system that enhances the quality of the adjudication results, dramatically reduces wait time and protects the applicant's information.

SRC's technology can be applied to all areas of personnel security, including security clearance automation and insider threat detection.

SRC's RiskTracer combines high performance computing with natural language processing algorithms and predictive behavior modeling to rapidly analyze risk across terabytes of collected data. The result is a reliable, credible, automated review of the applicant's information in days rather than months.

In addition to preventing threats from entering through the front door, RiskTracer's automated security clearance process also provides ongoing assessment and mitigation for dangers

already lurking inside the organization. Sabotage from within can be destructive because of the insider's knowledge and access to critical information. Conventional security technologies, such as firewalls and intrusion detection systems, are ineffective when the threat comes from within an organization. Early detection of malicious behavior plays a critical role in protecting network security and cyberassets. RiskTracer's data fusion software can perform risk analyses in a fraction of a second and supports real-time monitoring.

By recognizing early warning signs, organizations can mitigate and prevent devastating cyber attacks. RiskTracer acts as an early warning system, helping organizations monitor, detect and take action against suspicious and harmful activity from both inside and outside the organization. Missed early warning signs could have devastating results. With the RiskTracer technology, agencies are protected against cyberattacks from both inside and outside the organization.

For more information, please contact inquiries@srcinc.com, or visit us online at www.srcinc.com.



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// SRC Awarded U.S. Patent for RF Attenuation Circuit

SRC received its newest patent, U.S. Patent No. 7,541,972, for the Radio Frequency Attenuation Circuit, credited to SRC inventors John Dougherty, Greg Kliss and John Wiley.

The RF Attenuation Circuit patent describes an RF-receiving circuit that selectively attenuates a received RF signal before it reaches sensitive modifying devices, such as a low noise amplifier or an analog to digital converter. When a radar or similar device transmits a pulse of energy, the pulse is released and may "bounce" off objects in the surrounding environment and return to be received by the radar. Occasionally, the energy reflected from nearby objects can be very powerful, and in some cases, the pulse of received energy can damage the internal circuits of the radar. If the pulse is very short, existing circuits cannot react in time.

SRC's RF Attenuation Circuit is designed to delay incoming signals for a time until another circuit can check the power levels of the received signal. This will allow for better reaction time and less damage to the internal circuits. The RF Attenuation Circuit will work for standard length pulses, as well as very short pulses, at any frequency.

// SRCtec Wins Army Contract for CREW Duke V2 Upgrades, Valued up to \$700 Million

The U.S. Army Communications-Electronics Life Cycle Management Command awarded SRCtec a five-year indefinite delivery/indefinite quantity contract with an approximate value of \$700 million for V2 system upgrades to the Counter Radio Controlled Improvised Explosive Device Electronic Warfare system, otherwise known as the CREW Duke. The CREW Duke counters radio-controlled roadside bombs, or IEDs, and is currently the U.S. Army's most widely fielded CREW system. The initial order is for \$188 million. SRCtec anticipates that this award will result in the addition of up to 50 production positions in 2010.



CREW Duke V3

SRCtec has been providing the U.S. Army and other military services with counter-IED solutions since its inception in 2006, and their products play a critical

role in reducing the number of roadside bombs detonated in the field. The first generation of the CREW Duke system, the Countermeasure Protection System, was one of the Army's Top 10 Inventions in 2005.

// SRC Wins \$24 Million EPA Contract to Assist Office of Pollution Prevention and Toxics

SRC has secured a contract award from the Environmental Protection Agency, valued at \$24 million throughout five years, to assist the Office of Pollution Prevention and Toxics by providing expertise and analysis in the health and environmental sciences. The work toward this effort will include biotechnology and biostatistics; screening hazard and exposure assessments; risk assessments and characterizations of new and existing chemicals; and expert analysis of science issues.

// LSTAR System Receives Qualified Anti-Terrorism Technology Designation

The LSTAR™ system, SRC/SRCtec's lightweight surveillance and target acquisition radar, recently received designation as a Qualified Anti-Terrorism Technology under the Support Anti-Terrorism by Fostering Effective Technologies Act of 2002, also referred to as the SAFETY Act. The LSTAR system has also been added to the Department of Homeland Security's Responder Knowledge Base Approved Product List, which includes a note indicating the SAFETY Act designation. According to the Responder Knowledge Base's Web site, its mission is to "provide emergency responders, purchasers and planners with a trusted, integrated, online source of information on products, standards, certifications, grants and other equipment-related information."

The LSTAR system is a low-cost radar designed to fill critical gaps in air surveillance, monitor the airspace for unmanned air systems, observe unauthorized border air intrusions, and enhance protection of critical infrastructure and other high value assets. The system's unique 3-D, 360 degree electronic scanning capability enables detection and tracking of the toughest targets, including low-altitude, slow-flying small aircraft.

The designation as a Qualified Anti-Terrorism Technology, and the addition to the Responder Knowledge Base, clears the

way for federal, state and local government agencies and, in certain circumstances, private companies, to use the LSTAR system in homeland security operations such as border protection and critical infrastructure protection. In order to qualify for the designation and the liability protections it provides, SRCtec had to prove that the LSTAR system met several criteria, including: prior U.S. government use or demonstrated substantial utility and effectiveness; availability of the technology for immediate deployment in public and private settings; and whether the technology would be effective in facilitating the defense against acts of terrorism.



LSTAR System

// SRC/SRCtec Achieves ISO Quality Standard Registration, Proves High-Quality and Consistent Performance

A recent surveillance audit, performed by ABS Quality Evaluations, certified that SRC's Systems Technology Business Area and SRCtec's Quality Management System comply with the requirements of ISO 9001:2008. ISO is an internationally recognized quality management standard developed by the International Organization of Standardization, a worldwide federation of national standards bodies representing 162 countries. ISO registration lets customers know they can count on the continued delivery of high quality products and services, time after time.

ISO 9001:2008 was developed to ensure organizations are consistently providing products or services that meet customer and applicable regulatory requirements, as well as to ensure organizations enhance customer satisfaction through continual improvement of operational effectiveness.

// SRC's FORESTER System and Philanthropic Achievements Honored by TACNY

The Technology Alliance of Central New York gave SRC high honors at the 2009 Celebration of Technology Awards Banquet. SRC's Foliage Penetrating, Reconnaissance, Surveillance, Tracking and Engagement Radar, more commonly known as FORESTER, was named the Technology Project of the Year. Bob Roberts, SRC's president and CEO, was also recognized with the Science and Technology Outreach Award for his outstanding contributions to science and technology education.

The FORESTER system is a technological breakthrough – as an airborne sensor that provides all-weather, day-night target detection, the radar can see through dense foliage to locate dismounted troops and vehicles. The radar was featured in *SIGNAL* trade magazine and on the National Geographic Channel.

Additionally, TACNY acknowledged Bob Roberts' and SRC's philanthropic achievements with the Science and Technology Outreach Award. The company focuses much of its contributions toward investing in education, funding numerous projects that help further an interest in science and technology. For the past several years, SRC has worked in conjunction with Syracuse University to develop an Engineering Mentoring program at two of Syracuse's city schools – Blodgett and Danforth. This program provides kids with an after school activity, led by Syracuse University engineering students, that encourages them to enter technology fields of study. The company also donates science equipment to both schools and is working to expand the program to other universities near their nationwide offices.



FORESTER attached to an A160 Hummingbird

// SRC Reaches 1,000 Employee Milestone, Still Hiring

SRC has reached a new level – the company now employs more than 1,000 people. Despite an economic downturn throughout the U.S., SRC and SRCTec are growing. Just this year, they opened new offices, in Aberdeen, Md. and Huntsville, Ala., and created two new business areas to focus on cybersecurity and chem-bio defense initiatives. They also continue to hire across the country – currently, SRC and SRCTec have more than 100 open positions.

More than 50 years ago, SRC was started as a small, university-based, research facility with 25 employees. In 2004, SRC employed just more than 500 people. That number has since doubled, and they expect the upward trend to continue. Together, SRC & SRCTec design, develop and manufacture various products, and they offer services that solve nationally significant challenges in defense, environment and intelligence.

// SRCTec Receives Corporate Member of the Year Award from Fort Drum Chapter of AUSA

The Fort Drum Chapter of the Association of the U.S. Army honored SRCTec as its Corporate Member of the Year. AUSA is a

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Publications & Presentations

Aligning with the educational focus of the SRC charter, our scientists have been active in publishing and presenting research during the last quarter:

- "Predicting the persistence of organic compounds," Published in *The Handbook of Environmental Chemistry*, Vol 2, Part B, by Phil Howard.
- "Environmental persistence of organic pollutants: Guidance for development and review of POP risk profiles." Published in *Integrated Environmental Assessment and Management*, by Phil Howard (with collaborators from other agencies).
- "Estimating the cancer risk of polycyclic aromatic hydrocarbons mixtures: What do the in vivo and in vitro genotoxicity data tell us?" Presented at the International Society of Polycyclic Aromatic Hydrocarbons Meetings by Peter McClure (co-authored by Heather Carlson-Lynch and Julie Stickey).
- "Developing mechanistic models for risk assessment of biothreat agents" Presented at a Center for Disease Control/Environmental Protection Agency workshop on dose-response by Mike Lumpkin.

About SRC & SRCTec

SRC is a research and development company with more than 50 years of experience in defense, environment and intelligence. SRCTec, an SRC company, provides manufacturing and logistics support for complex electronics systems. Together, through innovation in science, technology and information, we are **redefining possible™**. We work with the customer for the best solution – not the bottom line – resulting in nationally significant, next generation products and services.

SRC and SRCTec employ more than 1,000 people in 14 offices throughout Alabama, Colorado, Maine, Maryland, New York, Ohio, Texas and Virginia. There are more than 100 positions currently available nationwide. For more information, visit www.srcinc.com.

...AUSA

private, non-profit, educational organization that supports America's Army – active, National Guard, Reserve, civilians, retirees and family.

// SRCTec Expands Presence to Huntsville, Ala.

SRCTec has expanded its presence in Huntsville, Ala., to extend additional support for its customers at the Counter-Rockets, Artillery and Mortar Program Office and the Unmanned Aerial Vehicle Program Manager Office. SRCTec now operates in three locations: its headquarters in Syracuse, N.Y.; Aberdeen, Md.; and Huntsville, Ala.



SRCTec's new presence in Huntsville, Ala.

The new Huntsville office space will allow SRCTec to support its current customers, while pursuing additional opportunities at the U.S. Army's Redstone Arsenal. While SRCTec is new to Huntsville, its parent company, SRC, has more than 50 years experience in providing advanced technology solutions for the defense, environment and intelligence communities within the area.

SRCTec offers manufacturing and full lifecycle management for complex electronic systems for the defense industry, including the CREW Duke system, the LSTAR system, and the LCMR™ system, SRC's lightweight counter-mortar radar system. SRCTec's systems and logistics support have been tested and proven in the most arduous conditions in theater.

Innovator is a semi-annual technology newsletter from SRC/SRCTec.

For more information, please visit us online at www.srcinc.com.

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Employee Awards & Accomplishments

SRC Appoints New Assistant Vice Presidents

SRC has created new assistant vice president positions to focus on the expanding business in the growing Systems Technology Business Area. Several long-time employees have been promoted to fill three of the roles.

Promoted to assistant vice president, engineering, Al Lock will now be responsible for management and engineering excellence at SRC, providing visionary, forward-thinking and entrepreneurial leadership for the company's engineering group.



Al Lock

Promoted to assistant vice president, business development, electronic warfare/communications, Jim Periard will be responsible for establishing product roadmaps and executing the business development strategies for the electronic warfare and communications business area.



Jim Periard

Also promoted to assistant vice president, programs, Matt Tryniski will work with business development to create/execute strategic plans and business captures, and will be responsible for coordinating day-to-day activities between SRC and SRCTec.



Matt Tryniski

SRC Names Dr. Hohreiter to Director of Toxicology, Health and Ecological Risk Assessment

SRC has appointed David Hohreiter, Ph.D. aquatic toxicology, to director of toxicology, health and ecological risk assessment. In this position, Dr. Hohreiter will manage various project teams and be responsible for developing strategic marketing and business development plans for SRC's toxicology and risk assessment initiatives.



David Hohreiter

SRC's Howard Recognized with Global SETAC Award

SRC's Phil Howard, Ph.D. organic chemistry, was awarded the 2009 Herb Ward Exceptional Service Award from the Society of Environmental Toxicology and Chemistry. Each year, SETAC honors a past or present member who has performed long-term, exceptionally high-quality service to the Society.



Phil Howard

Dr. Howard has been a member of SETAC since 1979, serving on the North America Board of Directors for two terms, among several other positions with the Society. He is the environmental chemistry editor for SETAC's journal, Environmental Toxicology and Chemistry, and has published more than 30 journal articles on environmental chemistry and biodegradation.

Dr. Howard has been with SRC since 1970, and is currently a senior research fellow for the company.

SRCTec Names Tom Wilson Vice President and Chief Strategy Officer

Tom Wilson has been appointed vice president and chief strategy officer of SRCTec. In this new position, Wilson will leverage his experience in technology, customer markets, product development operations and business development to help further expand SRCTec's position in the defense industry. Prior to accepting this position, he served as the vice president, systems technology at SRC.



Tom Wilson

Partnered with the leadership team at SRCTec, Wilson will play a critical corporate-wide role developing, aligning and executing the strategic plan that supports SRCTec's vision and business plan. As vice president and chief strategy officer, Wilson will focus his initiatives towards the SRCTec product line, technology assessments for potential product acquisitions and the pursuit of new customers.