



Rhode Island's Knowledge Economy

Defense and Homeland Security



The Rhode Island defense industry, comprised of more than 100 organizations, employed more than 16,000 people in 2008 and generated \$1.75 billion in revenue. The industry supports world class services in cooperative research, product development, technology transfer, R&D, testing and evaluation, engineering, computer systems and software design, navigations systems, sonar, acoustics, oceanographic research and war game development.

The Ocean State is home to highly skilled manufacturing companies such as Electric Boat and Raytheon Integrated Defense Systems and numerous software engineering firms located throughout the state and Aquidneck Island.

The close proximity of the state's defense-related companies, academic institutions and military partners also make collaboration faster and more efficient, enabling Rhode Island's defense companies to take full advantage of cross-disciplinary opportunities.

Only in Rhode Island can you find such a diverse portfolio of defense-related expertise concentrated in such a small geographic footprint. The state's defense sector supports multiple Department of Defense and Homeland Security needs with a highly connected network of companies, ranging from multinational corporations to start-ups that are moving out of the lab and into the marketplace.

Fast Facts:

- *Department of Defense contracts totaled \$407 million in RI for 2007.*
- *Military employment in Rhode Island as a percentage of private sector employment is 6 times greater than in Massachusetts and 3 times greater than in Connecticut.*
- *Overall, Rhode Island is 28% more reliant than the nation on military facility employment.*

Defense and Homeland Security Success Stories



SEA CORP (Systems Engineering Associates Corporation), recognized as one of Rhode Island's fastest growing private companies, offers systems engineering, advanced software services and products, test and evaluation services and innovative technology research and development to a broad range of clients within the defense, National security and manufacturing industries.

Founded in 1981, the company is a veteran-owned business focusing on systems engineering, software, and test and evaluation services. SEA CORP's core business is providing services to the Department of Defense in the areas of electronics, combat, sonar and launch systems. Those services range from test and evaluation of existing equipment through engineering and development of hardware, software and documentation for new systems.

SEA CORP supports a diversified spectrum of customers. Their product development teams work on the leading edge to actively pursue emerging technologies to develop solutions to critical National security challenges. The company's depth of knowledge and resources provide for a wide range of services from engineering technology and software development to innovative prototype and product development.

GENERAL DYNAMICS Electric Boat

With more than 110 years of undersea experience, Electric Boat has established standards of excellence in the design, construction and lifecycle support of submarines for the U.S. Navy. Primary operations are its shipyard in Groton, CT, and the automated hull-fabrication and outfitting facility in Quonset Point, RI.

The company employs some of the world's finest professionals in the areas of Electrical, Mechanical, Civil/Structural, Aerospace, Computer, Nuclear, Ocean and Marine engineering, as well as Naval Architecture.

The foundation of Electric Boat's construction capabilities is modular assembly — a pioneering development that has revolutionized the submarine industry. The process starts with large module construction at the Quonset Point manufacturing facility with final assembly, integration and test at its Groton shipyard. At these two state-of-the-art operations, digital design data is transformed into hull sections packed with components, subsystems and complete systems that are assembled into sophisticated undersea vessels which remain in service for up to 40 years.

Today Electric Boat is the lead designer of the Virginia-class submarine and the prime contractor for the first 10 boats of that class. The Virginia class is the first major warship completely designed using computers, a capability pioneered here at Electric Boat. Electric Boat is also developing the technologies that will maintain the U.S. Navy's dominance in submarine warfare well into the 21st century.