



SURVICE

ENGINEERING COMPANY

CORE COMPETENCIES AND CAPABILITIES

Specializing in system safety, survivability, and effectiveness, the SURVICE Engineering Company is a small business that has provided the U.S. Department of Defense (DoD) and other customers with high-quality analytical products and services for four decades. The company was founded in 1981 to provide specialized survivability services; however, we have continued to expand and enhance our capabilities to support a wide range of industries throughout the DoD, homeland security, advanced technologies, environmental, and commercial markets.

CORE BUSINESS AREAS

SURVICE is able to offer customized support to each client by integrating our core areas of competency:

SYSTEMS ANALYSIS & ENGINEERING

From our beginnings, SURVICE has been a leader in analyzing the composition and performance of U.S. and foreign air, land, and sea combat systems. We conduct a wide variety of ballistic and nonballistic analyses and systems engineering studies, including analyzing threat-target interactions; susceptibility and vulnerability reduction; platform suitability; component, system, and mission performance; technology optimization; personnel vulnerability; fire prediction and mitigation; munitions-related safe escape/separation, flutter, stability, and control; and electromagnetic environmental effects (E3) and lightning.

TEST & EVALUATION

SURVICE's experienced test and evaluation (T&E) professionals are involved in all aspects

of acquisition program support, including ballistic and nonballistic developmental, operational, and live-fire testing. We perform test planning, management, conduct, analysis, and reporting; and we use the latest automated data collection tools, damage assessment processes, and weapon system databases. Also, when appropriate, we leverage capabilities and technologies from across the company to give our customers a convenient single source for all their T&E needs.

MODELING & SIMULATION/ SOFTWARE ENGINEERING

SURVICE has proven expertise with the latest M&S and software engineering tools and technologies. We work with many engineering and physics-based component-, system-, and force-level models; and our capabilities span from algorithm/methodology development to code design and low-level optimization to configuration management and verification, validation, and accreditation (VV&A) support (in all phases of the acquisition process). We also develop customized user interfaces and computational tools for applications such as automated laser measurement, post-test damage collection, 3-D geometry modeling/conversion, high-speed raytracing, and fire modeling.

DIMENSIONAL METROLOGY & REVERSE ENGINEERING

SURVICE is uniquely positioned to offer DoD and non-DoD customers specialized, high-precision metrology (i.e., measurement), modeling, and related services. These services—which can be performed at a customer site or our full-service Metrology

Centers—include reverse engineering, target exploitation, rapid prototyping, dimensional inspection, pre- and post-test damage assessment, 3-D geometric modeling, metrology integration support (for manufacturing and assembly), and metrology tool application and development.

INFORMATION TECHNOLOGIES AND MANAGEMENT

SURVICE is a repository and distributor of the nation's vital defense-related information. As the prime contractor of the DoD Information Analysis Center (DoD IAC), we acquire, archive, analyze, synthesize, and disseminate scientific and technical information related to 22 technical focus areas spanning the Defense Systems, Cybersecurity and Information Systems, and Homeland Defense and Security Information domains. Additionally, we maintain classified and unclassified databases, supporting the community practitioners in a wide range of research, development, and T&E efforts.

dodiac.dtic.mil

SPECIAL TECHNOLOGIES AND FOCUS AREAS

TACTICAL RESUPPLY VEHICLE (TRV) – Our work in UAS development and testing is an example of providing new game-changing capabilities to the Warfighter for transportation and logistics. The Tactical Resupply Vehicle (TRV) family of drones, developed in collaboration with UK-based Malloy Aeronautics, represents field-proven capability at tactically significant payloads and ranges.

survice.com/trv

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HPC CENTER – SURVICE's High-Performance Computing (HPC) Center is a uniquely accredited NVIDIA CUDA Research Center and an industry leader in high-performance computing, computer graphics, scientific visualization, and physics-based modeling and simulation capabilities, developing and using numerous leading-edge tools and technologies, such as the ultrafast Rayforce™ and StingRay™ raytracing technologies.

COMPOSITES – As a long-time leader in composites research and development, SURVICE is partnering with experts in academia and industry to leverage the high-strength, low-weight advantages of composite materials and integrate these technologies across the battlefield and beyond, including electromagnetic shielding for electronic components, as rotorcraft drives shafts, and as combat vehicle flooring.

SELF-SEALING FUEL CONTAINMENT – SURVICE's self-sealing fuel containment technology provides current and new fuel tank bladders/designs with a robust, lightweight, and easily integrated multi-hit

solution, leveraging a novel “sandwich” design of liquid reactant and high-elongation elastomer layers, as well as a quickly forming/expanding polymer, to provide both mechanical and chemical self-sealing capabilities.

HIGH-ENERGY LASER (HEL) – As HELs become a focus for DoD vulnerability and lethality communities, SURVICE has added HEL survivability and lethality analysis and testing to our core competencies. We execute HEL analyses that determine platform vulnerabilities as well as develop HEL tools to increase the fidelity and accuracy while decreasing run-times, allowing thousands of engagement conditions to be run faster than in real time. We also support HEL testing through material and system damage characterization as well as the evaluation of survivability enhancement materials

NUCLEAR – SURVICE has recently added nuclear vulnerability and hardness assessments to our company's suite of survivability and lethality capabilities. We assess thermal, overpressure, and gust damage mechanisms

to support both inherent hardness and base-escape analyses. We also support thermal fluence testing to evaluate material damage characterization.

CYBER – SURVICE is involved in a variety of high-profile cyber security tasks, supporting multiple customers within the DoD and intelligence communities. Our primary services include cybersecurity evaluations and assessments, cyber survivability analyses, cyber research and development, crypto design and implementation, offensive cyber operations (OCO), and defensive cyber operations (DCO).

WARGAMING – As warfare becomes more complex and multidomain, the ability to adequately predict the outcome of conflicts becomes more challenging. SURVICE, in partnership with the U.S. Air Force Research Laboratory and the University of Dayton Research Institute, is working to develop a validated, simulation-based, analytical wargaming tool.

SURVICE AREA OPERATIONS

CORPORATE HEADQUARTERS

4687 Millennium Drive
Belcamp, MD 21017-1505
Phone: 410-273-7722
Fax: 410-272-7417
Web: www.survice.com
Email: info@survice.com

ABERDEEN AREA OPERATION

Aberdeen_info@survice.com
410-273-7722

ABERDEEN RESEARCH OPERATION

aro_info@survice.com
410-273-7722

APPLIED TECHNOLOGY OPERATION

Applied-technology-info@survice.com
443-360-4605

DAYTON AREA OPERATION

Dayton_info@survice.com
937-431-9914

INFORMATION ANALYSIS CENTERS

contact@csiac.org
contact@dsiac.org
contact@hdiac.org
443-360-4600

GULF COAST OPERATION

GCO_Info@survice.com
850-362-6920

HUNTSVILLE AREA OPERATION

Huntsville_info@survice.com

MICHIGAN AREA OPERATION

Michigan_info@survice.com
248-509-7970

PATUXENT RIVER AREA OFFICE

Patuxent_info@survice.com
301-866-2080

PMC OPERATION

PMC_info@survice.com
575-835-4800

SURVICE METROLOGY

metrology@survice.com
410-297-2378

WASHINGTON AREA OPERATION

Washington_info@survice.com
703-221-7370

