

TRUE

Verus is Latin for true, a tenet fundamental to our quest for answers and essential to our values as a company.

Verus Research is an elite team of scientists and research engineers with compelling experience in advanced electromagnetic simulation and analysis; directed energy modeling, design, and systems integration; nuclear systems analysis and radiation effects; multi-spectral sensor fusion; cognitive control systems; and artificial intelligence. This is where cutting edge science meets intelligent innovation—where complex theories are transformed into tangible results. Verus Research delivers the ideal combination of critical thinking, unrivaled expertise, and state-of-the-art technologies to provide our customers with tailored answers for their specific needs—on time, on budget, and on point.



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OUR EXPERTISE

We implement highly-tailored scientific and engineering solutions that meet or exceed customer requirements from concept definition and design, to prototype development, and system verification & validation.

ADVANCED RESEARCH CONCEPTS & TECHNOLOGY

- Directed energy effects
- Electronic & cyber warfare
- Autonomous control algorithms & systems
- Advanced sensor technologies

MODELING SIMULATION ARCHITECTURES

- HPM engagement modeling & simulation
- Predictive effects models
- High-fidelity computational electromagnetics
- HPM-induced recuperation time

TACTICAL SYSTEMS DEVELOPMENT & TESTING

- Effects-driven HPM system development
- HPM source development, testing & analysis
- DE-Effects repository development & maintenance

STRATEGIC SYSTEMS ENGINEERING

- Nuclear test capability development & modernization
- Space system radiation assessment
- Nuclear effects modeling, simulation, assessment, & testing



MODELING & SIMULATION

Advanced high power electromagnetic modeling & simulation (M&S), radio frequency communications, antenna design, cognitive radios and spectrum exploitation, test hazard prediction, 3-D visualization & animation, reconfigurable systems and cognitive architectures, mechanical structural analysis (static & dynamic), computational fluid dynamics (CFD), particle transport, plasma M&S



SYSTEMS DEVELOPMENT AND INTEGRATION

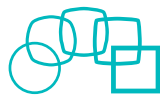
Advanced materials research and applications, electromagnetic and ionizing radiation effects, electromagnetic interference and compatibility, experimental validation and testing, high-reliability mechanical systems, plasma pinch and pulsed power

SOLVE

Our scientists and engineers have developed productive relationships with the following research and development business leaders and research universities.

OUR PARTNERSHIPS

AEgis Technologies	Missouri University of Science and Technology
AltaSim Technologies	New Mexico Institute of Mining & Technology
Applied Physical Electronics, L.C.	Next State Systems
Areté Associates	Riverside Research (non-profit)
ASR Corporation	Scientific Applications & Research Associates (SARA)
Ball Aerospace	SimVentions
Black Sage Technologies	The Pennsylvania State University
Booz Allen Hamilton	TimeLike Systems
DS Embedded Systems, LLC	University of Hawaii – Marine Mammal Research Program (UH-MMRP)
Durbin Group	University of Maryland
Dynetics, Inc.	University of New Mexico
General Atomics	University of New Mexico – COSMIAC
Georgia Tech Research Corporation	University of New Mexico Center for High Technology Materials
Integrated Applied Science, LLC	University of Texas at Austin
Intelli-NET of SC	Woods Hole Oceanographic Institution
Leidos	
MEI Technologies, Inc.	



ONSITE TECHNICAL EXPERTISE

Systems engineering and technical project management, electromagnetic interference and compatibility, spacecraft design, environmental radiation sensing, mechanical & electromagnetic system design, nuclear reactor analysis and design, radiation transport, and beam target modeling

Verus Research team members have been integral to the design, development, testing, and evaluation of directed energy, communications, surveillance, and other highly tailored systems spanning the gamut from nano-scale quantum devices to airborne directed energy systems integration to artificially intelligent space maneuvering and docking control systems. We are a recognized small business leader in cutting edge technology development and maturation.

OUR CUSTOMERS

Advanced Technology International (ATI)	Army Program Executive Officer for Simulation, Training & Instrumentation	Naval Air Warfare Center – Aircraft Division
AEgis Technologies	Army Research Laboratory	Naval Sea Systems Command
Air Force Life Cycle Management Center	Azimuth Corporation	Naval Surface Warfare Center
Air Force Research Laboratory (Directed Energy Directorate)	Booz Allen Hamilton, Inc.	Office of Naval Research
Air Force Research Laboratory (Space Vehicles Directorate)	Bowhead Professional Solutions	Orbital ATK
Air Force Research Laboratory (Wright Research Site)	Defense Threat Reduction Agency	Pacific Antenna Systems, LLC
American Systems	General Atomics	Peraton
Army Program Executive Officer for Missiles & Space	L-3 Applied Technologies	Sandia National Laboratories
	Leidos	Schafer Aerospace
	Lockheed Martin	Steel City Optonics
	Milanowski & Associates	Stellar Science
	National Aeronautics & Space Administration	SURVICE Engineering Company
		TEAM Technologies
		TRAX International
		UES

TRUST