Corporate Capabilities
WHO WE ARE

Veteran-Owned Small Business
Established in 2000

Engineering, Technical, Trade
and Consulting Services to DoD
and Commercial Customers

250+ Employees Nationwide

ISO 9001 Certified

NAICS Codes: 336611, 541330,
541380, 541511, 541513,
541611, 541614, 541618,
541690, 541712, 541990,
611430
PRIME CONTRACT VEHICLES

SeaPort-e
- 04ND RADIAC Logistics and Engineering
- 04X Naval Shipyard Corporate Resource Management Support
- NAVSEA SEA 21 / Surface Maintenance Engineering Planning Program (SURFMEPP)
- NSWCCD Philadelphia
- NAVSEALOGCEN

GSA
- Professional Engineering Services (PES) Schedule

OASIS
- GSA One Acquisition Solution for Integrated Services
- Department of State

Defense Logistics Agency
- Reverse Engineering

Aberdeen Test Center
- Instrumentation & Test Facility Development Support

eFAST
- Electronic FAA Accelerated and Simplified Tasks, FA: ATS, BAM, R&D, ES, CSD & CSS

Industrial Services
- Touch Labor
SUBCONTRACTOR VEHICLES

**SeaPort-e**
- SEA 05, Surface Combatants Contract (Alion)
- SEA 06, National Shipbuilding Research Program Contract (Sub to CSRA)
- SEA 10 (Corporate Operations (CACI)
- PEO Aircraft Carriers (Sub to CSRA)
- PEO LCS (BAH)
- Naval Shipyard Training & Education Program (NSTEP) (CACI)
- Team Submarine EWCSS (Alion)
- NUWC Newport Code 15 Towed Array Handling Equipment Facility (BAE)
- PEO Ships (PMS 325) contract (Sub to CSRA)

**SPAWAR**
- Multiple SPAWAR Pillars

**SPAWAR SSC PAC**
- C4I Engineering Services (Sub to Kratos)

**Joint Basing and Technology Transition Contract**
(Sub to GDIT)

**TacMobile**
(Sub to Tapestry)
WHO WE SERVE

Federal

- NAVSEA 04XR, 04XQ, 04ND, 04Z, 05U, 05Z, 05P, 06, 10, Wounded Warrior, Naval Shipyards, PEO LCS, PEO Carriers
- NUWC – Newport
- PEO Submarines, PMS 397, PMS 406, PMS 415, PMS 450
- SUPSHIPS
- SURFMEPP, SUBPAC
- NSWC – Carderock, Philadelphia
- National Geospatial-Intelligence Agency
- PEO Ships (PMS 325)
- Defense Logistics Agency
- SPAWAR
- Army
- Department of State

Commercial

- Clemson University Restoration Institute
- New Jersey Transit
- Savannah River National Laboratory
- Hubner Manufacturing Corporation
- Milliken Research
- Kaydon Bearings
- Wabtec Passenger Transit
- Medical University of South Carolina
- Westinghouse
CORPORATE CAPABILITIES

ENGINEERING

LOGISTICS

IT SUPPORT

CONSULTING

RDT&E

INDUSTRIAL SERVICES
ENGINEERING

- Mechanical and Electrical Design
- Systems Engineering and Integration
- Structural, Fluids and Material Engineering
- System Design Integration and Implementation
- Planned Maintenance Systems Development
- Component Testing/Qualification

Complete system development including:
Design, Rapid Prototyping, Development, Testing, and Production

Extensive facilities for RDT&E:
Research new products and services for existing and new customers

Modeling & Simulation
LOGISTICS

- Shipboard System Integration & Upgrade Planning
- Submarine, Shipyard, Acquisition Logistics
- Availability Work Package Support
- Fleet Support Issues
- Configuration Management
- Shipboard System Calibration
- Waterfront Shipyard Trade Labor Support
- Level I/SOC Material Receipt Inspection
- Shipyard IT System Maintenance Support
- Fly-By-Wire System Support
- SUBSAFE Certification and Quality Assurance
- Outfitting Support
IT SUPPORT

- Enterprise System Support
- Software Development
- Systems Administration
- Information Assurance
- Cybersecurity Compliance
- Oracle Database & Data Management Support
- Life Cycle Management
- Data Warehouse Management
- SAP Business Objects Administration
- Active Directory Management
- Citrix Administration
- Oracle WebLogic Administration
- Java Application Development
CONSULTING

- Acquisition Strategy Support to Senior Leadership
- Submarine Risk Management & Mitigation Support
- Project Integration & Process Improvement
- Metrics Development & Assessment
- Engineering Management Consulting
- Ship Maintenance, Repair and Modernization Trade Labor Support
- Measures and Milestone Development & Implementation
- Validation and Certification
- Organizational Assessment
- Budget / Financial Management
RESEARCH, DEVELOPMENT, TEST & ENGINEERING

Design, Test, Automation, Manufacturing, and System Integration

ORBIS Labs provides our partners and customers with professional engineering services.

Our experience in system integration, mechanical engineering, electrical engineering, software development, and turn-key test and automation systems allows us to deliver our customers a vast array of technical solutions.
INDUSTRIAL SERVICES

- Marine Electricians
- Temporary Service Electricians
- Marine Pipefitters
- Temporary Service Pipefitters
- Outside Machinists
- Painter/Blasters
- Rigger/Weight Handlers
- Shipfitters
- Welders
- Sheetmetal Mechanics
- Shipwrights/Staging
- Insulators
- Forklift Operators
- Firewatch & Tank Watch
- Pearl Harbor Naval Shipyard Touch Labor IDIQ
ORBIS Labs provides custom and COTS engineered solutions with a focus on innovative test and diagnostic solutions.

<table>
<thead>
<tr>
<th>Capabilities</th>
<th>Solutions</th>
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<tbody>
<tr>
<td>• Embedded Solutions &amp; Circuit Board Design/Build</td>
<td>• Save Time and Lower Cost</td>
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<tr>
<td>• Data Acquisition</td>
<td>• Increase Reliability</td>
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<td>• Software Development</td>
<td>• Reduce Human Error</td>
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<td>• Real-Time Systems</td>
<td>• Enhance Safety</td>
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<td>• Communications Busses</td>
<td>• Self-Test</td>
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<td>• Requirements Development</td>
<td>• Integrate with Existing Architectures</td>
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<td>• Prototyping</td>
<td>• Extend the Operational Life of Platforms and Products</td>
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<td>• COTS Integration</td>
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<tr>
<td>• Custom Automation Systems</td>
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<tr>
<td>• Process Control &amp; Industrial Automation</td>
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<tr>
<td>• Hardware in the Loop Test Systems</td>
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ISO 9001:2015 Certified
National Instruments Alliance Partner
SOLUTIONS

Compact Test System

Solid Phase Extraction System

Radiac Integrated Test Suite (RITES)

Light Rail Bench Test Equipment (BTE)
**Fiber Optic Moisture Detector**
- Designed to detect liquid ingress past connectors and seals in wet or undersea environments
- Uses moisture sensitive fiber optic cable technology

**Gas Pump Filter Alarm**
- Designed to alert gas station employees that a gas pump filter is becoming clogged
- Uses a wireless Bluetooth interface

**Talking Compass**
- Designed to serve as a navigational aid for the vision impaired
- Ability for programmable waypoints to map courses
- Gathers periodic GPS and environmental data
- Provides audible and sensory feedback via a tactical headband
CCA TESTING AND DESIGN

• ORBIS engineers designed the Compact Test System for circuit card assembly (CCA) testing at Depot Level Maintenance facilities where space is limited, but testing functionality is critical
  ➢ Performed testing of the Trident submarine’s Time Monitor CCA navigation module
  ➢ Full functional testing in a compact footprint

• ORBIS engineers designed a complex custom CCA for the IM-239/PDQ Air Particle Detector (APD)
  ➢ Relays APD radiation readings and alarm status information to the aircraft carrier’s Propulsion Plant Management Controller (PPMC)
  ➢ Interfaces with the PPMC across a fiber optic network using PROFIBUS communication protocols
  ➢ Includes a field-programmable gate array (FPGA) chip loaded with ORBIS programmed firmware to execute data acquisition and facilitate PPMC handshaking
Clemson University was awarded a grant in November 2009 by the U.S. Department of Energy to build and operate a facility to test next-generation wind-turbine drivetrain technology.

ORBIS was awarded a 5-year IDIQ contract in 2013, with a follow-on 5 years awarded this year, to provide engineering and manufacturing support. In 2018, Clemson was selected by MHI Vestas Offshore Wind's first major investment in the United States, catapulting the U.S. into a leadership position in offshore wind as the country will now be testing the world's most powerful wind turbine. It is anticipated that visitors from around the world will come to Clemson to see the test setup.

ORBIS engineers work in collaboration with Clemson and Vestas personnel to support the commissioning and testing of the first wind turbine drivetrain to be paired with the facility's 15MW dynamometer. Specifically, ORBIS is providing electrical, mechanical, and software design services to support the extensive data acquisition needs of the project. ORBIS is responsible for acquiring data from numerous sources, synchronizing that data, and providing control to a critical lubrication system incorporated in the Vestas drivetrain. ORBIS is providing a customized solution to seamlessly integrate with systems from both the Vestas platform and the Clemson facility command center.
CLEMSON DC POWER SUPPLIES

• ORBIS worked with engineers at the Clemson University Restoration Institute (CURI) to deliver a series of six high voltage direct current (DC) power supply cabinets for use at the SCE&G Energy Innovation Center to support wind turbine testing.

• ORBIS engineers designed detailed SolidWorks models of the cabinet. Each model included the cabinet and all internal hardware including mounting points, cable routing and other mechanical and electrical details required for development.

• Following design approval, ORBIS proceeded to build all of the cabinets at our facility in Mount Pleasant, SC.
ARMY ATC ENGINEERING SUPPORT

- ORBIS provides scientific and engineering support services for the development of instrumentation systems to the US Army’s Aberdeen Test Center (ATC) located at the Aberdeen Proving Ground in Maryland.

- ORBIS assists in the design, development, production and testing of circuit board assemblies, cable assemblies and enclosures for the Army’s Advanced Distributed Modular Acquisition System (ADMAS).

- ORBIS recently provided a software application that controls multiple Moog cameras and positioners. The program allows for both manual operator control and automated tracking of targets using GPS mapping at two ATC range facilities.
WMATA AUTOMATED BTE

- ORBIS worked with Schaltbau, a Tier 1 supplier to Kawasaki, to deliver Master Controller, Hostler Panel, Auxiliary Control Panel, and Door Control Panel automated Bench Test Equipment (BTE) for the Washington Metropolitan Area Transit Authority (WMATA) in Washington, DC.

- ORBIS designed & developed software for functional testing of analog and digital signals, reporting, data acquisition into an Access database, and fully integrated self-test checks for operation of test equipment and continuity of wiring and cables.

- ORBIS recently teamed with Schaltbau, Mac Panel and National Instruments to design and develop a Master Controller demonstration test system based on the WMATA automated BTE project.
NAVAL SHIPYARD TRADE SUPPORT (Touch Labor)

Our experience in naval ship repair, maintenance and modernization allows us to deliver our customers a vast array of trade skill support

• Competitive rates, comparable to naval shipyard local wages
• Fully-adjudicated security clearances
• ORBIS Industrial Services provides our partners and customers with professional marine trade services
• Our experience in naval ship repair, maintenance and modernization allows us to deliver our customers a vast array of trade skill support
TacMobile

ACAT III Weapons System Program tied to the P-8A and MQ-4C Triton. Evolutionary Acquisition Strategy in support of Maritime Patrol & Reconnaissance Aircraft (MPRA)

- Provide MPRA with persistent operational and tactical C4I “unit level” infrastructure
- System Engineering support to Operational Awareness, Mission Planning
- Production, integration, and configuration support for Aircraft Interface Mission Data Assembly, & Post Mission Data Analysis
- Integrated Logistics Support for the complete life cycle acquisition, production/integration and fleet support to TacMobile units and joint fleet commands
ORBIS helps DoS preserve the investment in its aircraft by restoring them to approved technical standards

ORBIS engineers and technicians recommend aircraft upgrades including the engineering and installation of Long Range Fuel Systems, electronics, and Beta Lockout Systems

We support a variety of aircraft including Beechcraft B 1900s and deHavilland DHC-8-315s
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