

ORBIS SIBRO, Inc.

AN ENGINEERING SOLUTIONS COMPANY

CORPORATE CAPABILITES



ORBIS

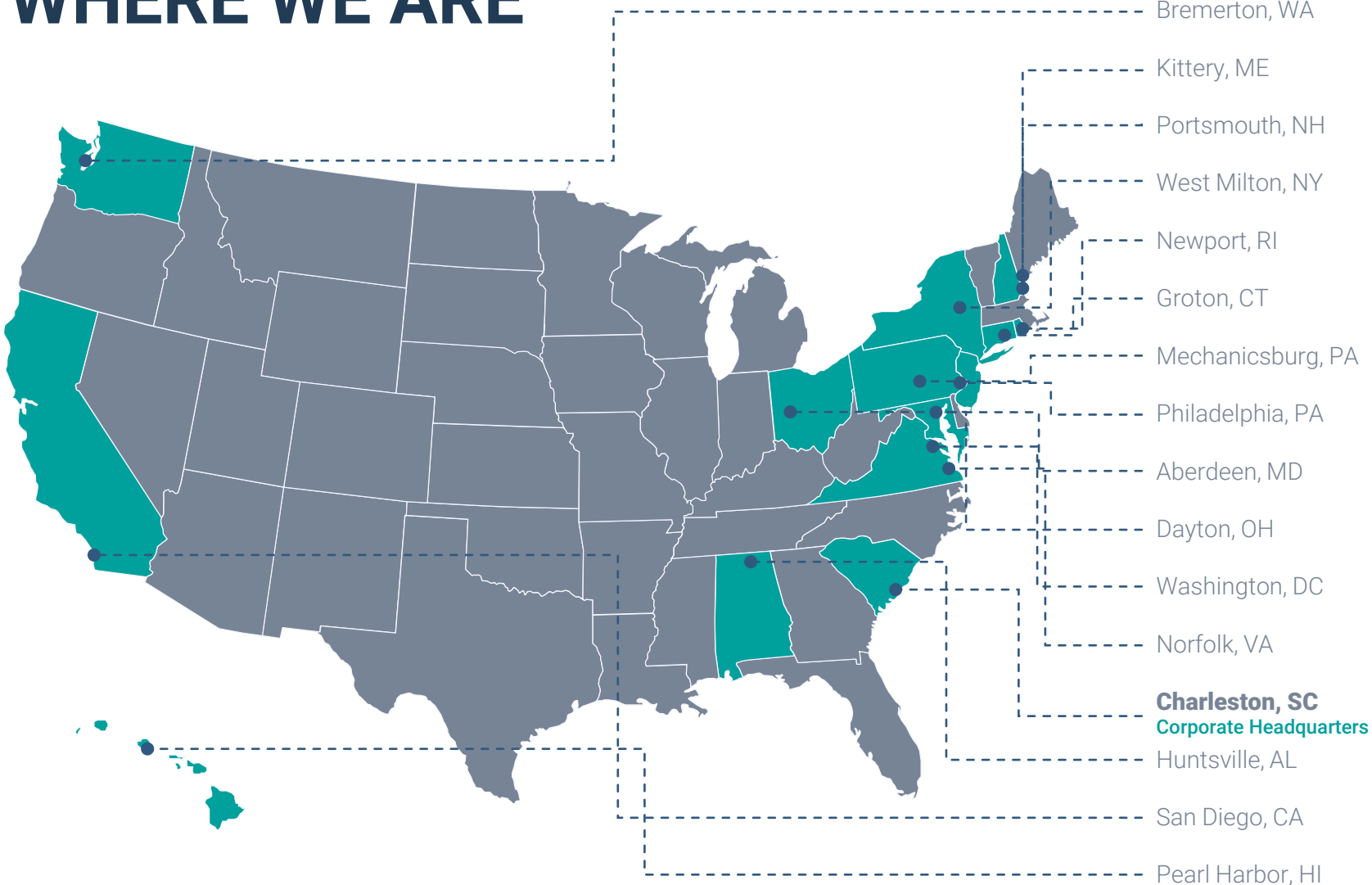
WHO WE ARE

- Veteran-Owned Small Business
Established in 2000
- Engineering, Technical, Trade and
Consulting Services to DoD and
Commercial Customers
- 350+ Employees Nationwide
- ISO 9001:2015 Certified

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



WHERE WE ARE



PRIME CONTRACT VEHICLES



SeaPort-e / NxG

- Logistics and Engineering
- Corporate Resource Management Support
- Surface Maintenance Engineering Planning
- IT Support
- Consulting

Industrial Services

- Touch Labor



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



GSA

- Professional Engineering Services (PES) Schedule



OASIS

- Department of State



Corporation for Command, Control and Communications in Cyberspace



WHO WE SERVE

FEDERAL



- NAVSEA 04XR, 04XQ, 04ND, 04Z, 05S, 05U, 05P, 06, 10, Wounded Warrior, Naval Shipyards, PEO USC, PEO Carriers, PEO SUBS, PEO CLB



- Norfolk Naval Shipyard, Pearl Harbor Naval Shipyard, Portsmouth Naval Shipyard, Puget Sound Naval Shipyard



- NAVAIR PMA 208



- NUWC – Newport



- SUPSHIPS



- SURFMEPP, SUBPAC



- NSWC – Carderock, Philadelphia



- National Geospatial-Intelligence Agency



- Defense Logistics Agency



- ARMY – Aberdeen Test Center

- Department of State

- NIWC Atlantic / Pacific – TacMobile C4ISR Depot



COMMERCIAL



- Clemson University Restoration Institute



- New Jersey Transit



- Savannah River National Laboratory



- Hubner Manufacturing Corporation



- Washington Area Metropolitan Transit Authority (WMATA)



- Schaltbau



- ICL Fertilizers



- Fluor Marine Propulsion



- Wabtec Passenger Transit

- Westinghouse

- Electric Boat

- Siemens

CORPORATE CAPABILITIES



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.



ORBIS Industrial Services
trusted. quality. experienced.

NAVAL SHIPYARD TRADE SUPPORT (TOUCH LABOR)

- Competitive rates, comparable to naval shipyard local wages
- Labor Force fully vetted for work in Naval Shipyard Industrial Areas
- 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



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



ORBIS LABS

tested. running. reliable.

ORBIS Labs provides custom and COTS engineered solutions with a focus on innovative test and diagnostic solutions.

CAPABILITIES

- Embedded Solutions & Circuit Board Design/Build
- Data Acquisition
- Software Development
- Real-Time Systems
- Communications Busses
- Requirements Development
- Prototyping
- COTS Integration
- Custom Automation Systems
- Process Control & Industrial Automation
- Hardware in the Loop Test Systems



SOLUTIONS

- Save Time and Lower Cost
- Increase Reliability
- Reduce Human Error
- Enhance Safety
- Self-Test
- Integrate with Existing Architectures
- Extend the Operational Life of Platforms and Products

*ISO 9001:2015 Certified
National Instruments Alliance Partner*



SOLUTIONS



COMPACT TEST SYSTEM

LIGHT RAIL BENCH TEST EQUIPMENT (BTE)



RADIAC INTEGRATED TEST SUITE (RITES)



SOLID PHASE EXTRACTION SYSTEM

PATENTS AND PRODUCTS

Fiber Optic Moisture Detector

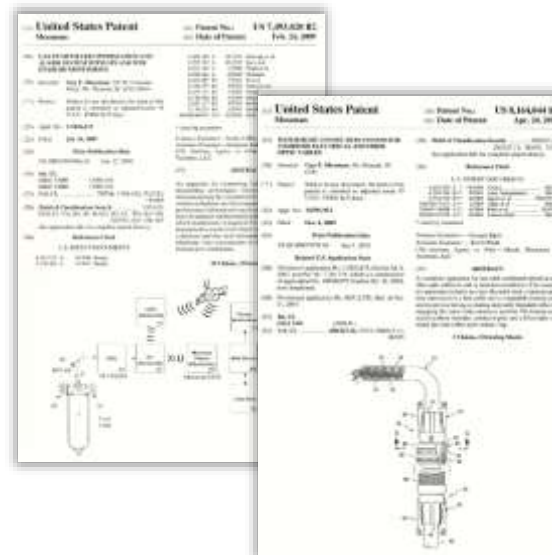
- Designed to detect liquid ingress past connectors and seals in wet or undersea environments
- Uses moisture sensitive fiber optic cable technology

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 WIND TURBINE TEST FACILITY

- In November 2009, the U.S. Department of Energy awarded Clemson University a grant 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.



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