VITRO

Vitro Technology Coroporation

SAM / WAWF Registered
Incorporated: 2015

CAGE: 7WYQ2
UEI: P3MDL4JZBUT8
JCP: 0083690 Exp 2026-06-16

SBA **HUBZone** Certified

NAICS Codes - 518210 Primary

334512 - Facilities Monitor
       & Control Manufacturing
334513 - Measurement
       & Control Manufacturing
334515 - Battery Tester
       Manufacturing
335311 - Power Distribution
       Manufacturing
335999 - DC Rectifiers
       & UPS Manufacturing
423690 - Telecommunications
       Wholesaler
518210 - Data Processing
       Hosting Services
541330 - Engineering Services
541511 - Custom Computer
       Programming Services
541513 - Computer Facilities
       Management Services
541519 - Other Computer
       Related Services
541690 - Security Consulting
       Services
561210 - Facilities Support Services

Vitro Technology Corporation

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Capabilities Statement

Cybersecurity, Code & Data for Critical Infrastructure

Vitro Technology Corporation is an SBA contractor with HUBZone certification. We bring over 7 years of experience serving as a prime and subcontractor for US Federal, Non-governmental (NGO) and commercial customer engagements – connecting, monitoring, controlling and securing critical infrastructure data and hardware.

With a proven record of close customer collaboration and innovative solutions, **Vitro delivers trusted code and data – from Edge to Cloud to AI/ML automations – on time and on budget.**

Vitro treats each project – regardless of size or duration – with the same attention to quality, detail, budget and execution.

Core Competencies

Solutions

- Uninterruptible Power Supplies
- Battery Monitor & Maintenance
- DC Power Supplies & Meters
- Fuel & Gas Meters
- Water Pumps & Meters
- Solar-powered equipment
- Remote environmental sensors
- Remote Billboards & Displays

Services

- Server-to-AWS Data Migrations
- Zero Trust Data Hosting
- Secure Dashboards
- AI/ML Data API Integrations
- CI-CD Pipelines & Trusted Code
- CISA RMF Compliance
- IoT Data Cybersecurity
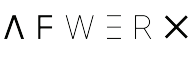- Emergency Notifcation Broadcast

Key Differentiators

- Turnkey service development – security, software, hosting, hardware, training, maintenance – in a single bid
- AWS-GovCloud HSI certified hardware and software
- IEEE Cybersecurity for Sensors Comittee Member
- Patented Cybersecurity for Remote Device Data Authentication
- Diverse experience transporting and hosting data for analog device monitor & control, e.g. sensors, actuators, cameras

Partners and Mentors

ATI AUSTIN TECHNOLOGY INCUBATOR — THE UNIVERSITY OF TEXAS AT AUSTIN

MITRE

CATALYST ACCELERATOR

AIR FORCE GLOBAL STRIKE COMMAND

LOCKHEED MARTIN

AFWERX

U.S. SPACE FORCE MMXIX

aws Advanced Technology Partner

SwRI

Past Performance

SBA U.S. Small Business Administration

SBIR 20.1 FA864920P0525
SBIR 21.2 FA864922P0329
SBIR 21.3 FA864921P0922

Battery Monitor & Uninterruptable Power Supply (UPS)

Backup power keeps critical systems operating through power failures. Failures can be sudden and are often unplanned. Batteries and UPS systems are placed under instantaneous maximum load, and need to be monitored and maintained to determine reliability. Vitro hardware and software record operating data from each cell for delivery to AI/ML systems. These inputs are the foundation of the virtual models that serve confidence of performance and critical duration.
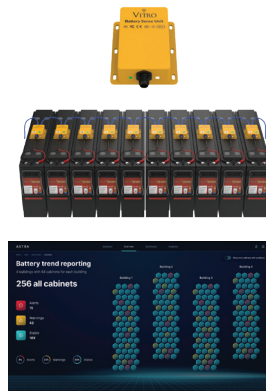
DC Power Supplies and Measurement

DC power is digital fuel for telecom, IT and cloud infrastructure. AC power is converted to DC power with maximum efficiency – but this conversion is effected by temperature, phases and noise. Vitro power supplies convert power and report critical operating data regarding efficiency and loads. From 100W (5V) to 16kW (60V) Vitro builds the most secure and flexible power supplies in the industry. Over-the-air updates allows for secure and continous optimization.
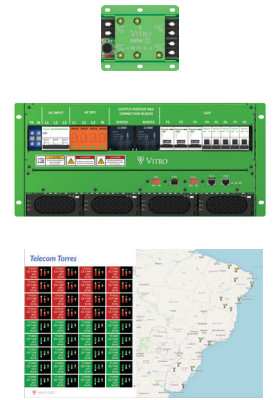
Fuel Tank, Liquid Oxygen and Gas Meters

Fuel and gas storage can be stationary or mobile – increasing the logistics challenge of tracking supply while monitoring for critical leaks and shortages. Vitro has executed projects for in-ground and mobile tanks systems –while securing the critical data traffic to deliver readiness and site health details to authorized users only. Proof of Origin and proof of integrity for crticial operating data is the key differentiator for all Vitro equipment.

Environmental and Remote Site Sensors

Vitro offers a wide variety of sensors designed to securely transmit data and control to cloud-based automation. Water, temperature, humidity, smoke, door switches and actuators to switch equipment on or off – all can be controlled via dashboard or AI/ML automation. Vitro supports a wide variety of thrid party sensors via 4-20 current loops, MODbus, PMbus and most other open interfaces. Unlike legacy systems (e.g. SCADA), Vitro delivers secure proof of performance.

Water and Liquid Pumps and Meters

Civic and sovereign meters and pumps are critical infrastructure that all people rely on. Watts per gallon of water pumped, gallons per hectare of land irrigated – these key performance indicators deliver critical insight into the efficiency and effectiveness of resource allocations. Vitro equipment produces metrics with proof of origin and proof of performance for virtual automation tools – linking our physical world to the logical control and automation of the cloud.

Billboards, Signage and Remote Displays

Digital displays offer the flexibility to exhibit dynamic content where and when it is most valuable. Whether an ad for a lunch special or an emergency warning from an official source, public displays serve site-specific messages. Vitro has executed projects from the DHS iPAWS emergency broadcast system to billboard ads on roads and in subways. Vitro controls a critical patent verifying the image on screen – assuring sovereign and commercial customers proof of performance.

Solar-Powered Pumps and Utilities

Solar power management combines low-power battery-operated control systems that conserve energy when there is no sunlight with high power systems that perform work when there is sufficient energy generated. Vitro products and services coordinate these low and high power systems to perform in harmony. Connected to the cloud wirelessly (LTE, 5G, LoRa), remote sites can be managed to optimize output - whether maximizing or limiting production to meet targets.
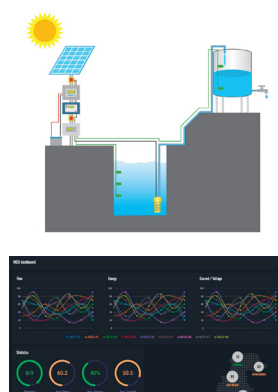
Custom Cybersecurity for Analog and Legacy Systems

Sensors and actuators are the link between the real, analog world and the cloud-based world of digital twins, AI/ML and optimized automation. Vitro serves as the link combining cybersecurity with command and control of systems in the real world from the cloud. Dashboards, remote over-the-air (OTA) updates and Proof-of-Origin are combined in the Vitro platform – capable of monitoring or controlling any legacy or analog system with trusted automation.