COLSA

MSET SBC Forum

24 April 2024

www.COLSA.com

COMPANY HISTORY / PREVIEW

Map legend:

+ OCONUS Support Locations

- ★ Corporate Headquarters Huntsville, Alabama
- ▮ Where We Work
- © Regional Office
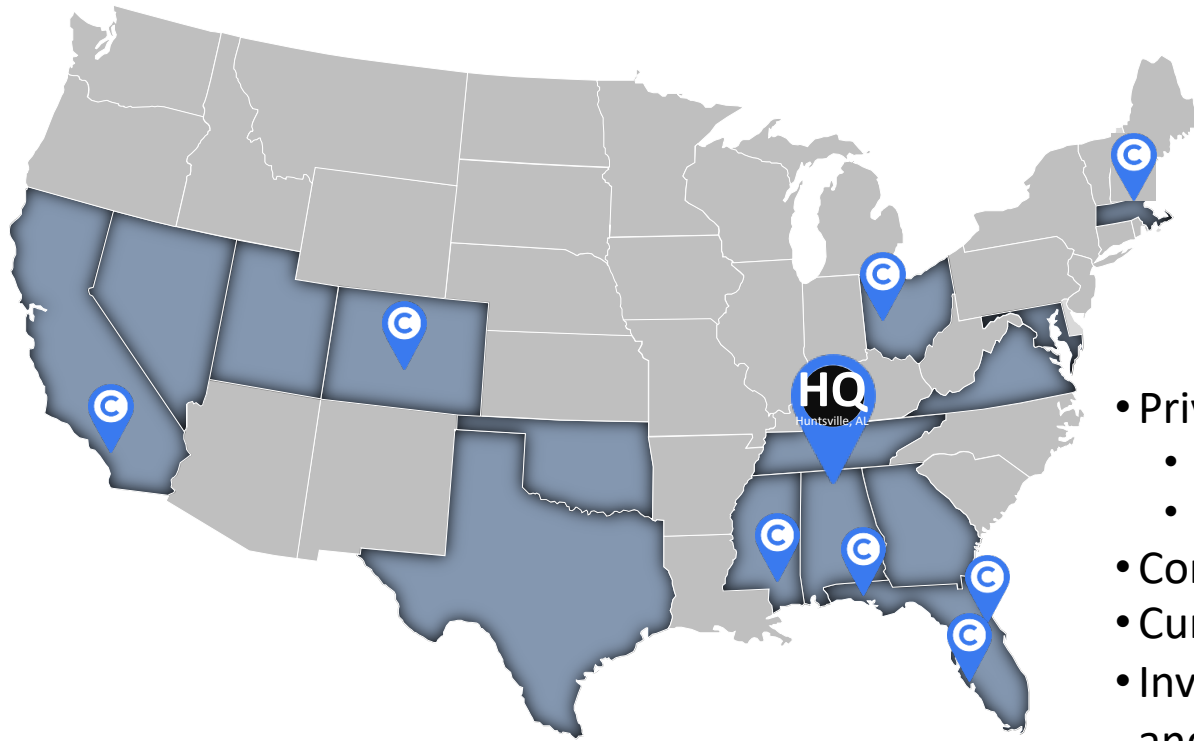
HQ Huntsville, AL

- Privately Owned by Frank J. Collazo
  - *Served 30 Years in U.S. Army*
  - *Founded Company in 1980*
- Corporately based in Huntsville, AL
- Currently has over 1,400 employees
- Involved in contracts as a Prime and/or Sub
- Contracts support NASA, DOD, FBI, MDA, DIA, and others
- Company focus is on 5 Business Sectors supporting information, business operations, and engineering services and solutions

COLSA

OUR MISSION

At COLSA, our mission is to provide value-added and cost-effective solutions to our Government and Commercial customers by providing the latest and most sophisticated engineering, programmatic, and information technology products and services performed by a knowledgeable and ethical team of professionals.

OUR QUALITY

Our policy is to provide products and services that meet or exceed requirements and to continually improve our processes to ensure customer satisfaction above all else.
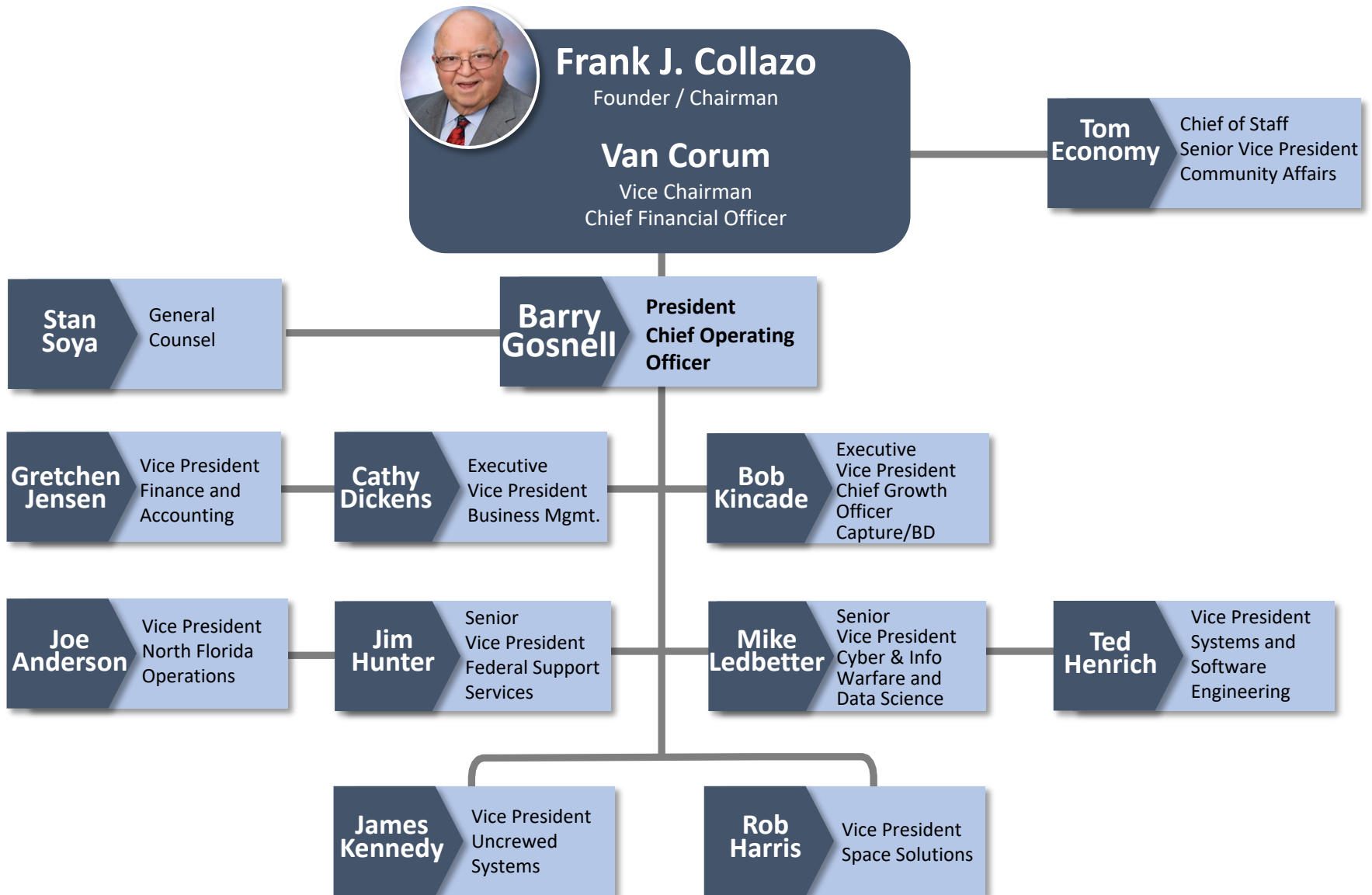
OUR VALUES

People are our most valuable resource.
Integrity underlies all that we do.
Teamwork is integral to success.
Customer Satisfaction is the cornerstone of our corporation.

ORGANIZATION

Frank J. Collazo
Founder / Chairman

Van Corum
Vice Chairman
Chief Financial Officer

Tom Economy — Chief of Staff
Senior Vice President
Community Affairs

Barry Gosnell — **President**
Chief Operating Officer

Stan Soya — General Counsel

Gretchen Jensen — Vice President Finance and Accounting

Cathy Dickens — Executive Vice President Business Mgmt.

Bob Kincade — Executive Vice President Chief Growth Officer Capture/BD

Joe Anderson — Vice President North Florida Operations

Jim Hunter — Senior Vice President Federal Support Services

Mike Ledbetter — Senior Vice President Cyber & Info Warfare and Data Science

Ted Henrich — Vice President Systems and Software Engineering

James Kennedy — Vice President Uncrewed Systems

Rob Harris — Vice President Space Solutions

COLSA

COLSA is an information and engineering services and solutions company that has been delivering results to federal agencies for over 40 years. Our customer-focused approach, coupled with our advanced technical capabilities, allow us to deliver innovative, high-quality solutions across all areas of the enterprise. We remain steadfast in our core goal: ***to serve the company's customers with dedication and excellence.***

Cyber and Information Warfare

Data Science

Enterprise Information Services

Federal Support Services

Systems and Software Engineering

Uncrewed Systems

Integrating People, Processes, and Technology to Gain and Maintain Information Dominance.

Defensive Cyber Operations
Identifying threats, reducing vulnerabilities, and enhancing cyber defenses for faster detection and reduced response time.

Offensive Cyber Operations
Employing threat tactics, techniques, and procedures (TTPs) against enclaves to present the latest threat representation of our Blue Networks.

Information Warfare
Discovery and exploitation of threat entities, communities, and networks at mission speed and scale.

Software Assurance
Securing software against malicious and pernicious risks and flawed coding to ensure maximum functionality.

Cyber Solutions, Engineering Research, and Development
COLSA's Cyber Solutions and Innovations Labs combine industry Subject Matter Experts (SMEs), seasoned professionals, and unsurpassed interns to create an environment for innovation.

Unmanned Systems
COLSA Stormworks creates innovative low cost sUAS solutions for full spectrum threat representation.

DATA SCIENCE

Delivering Advanced Capabilities in Support of Critical Mission and Operational Requirements

Data Engineering and Machine Learning Operations (MLOps)

With code reuse and the utility of high-level compute libraries, we can take the focus off what would be considered software engineering that software engineers do, to instead build successful machine learning and mathematical models which is what data scientists do.

Knowledge Management Solutions

From traditional relational databases to the latest in graph database technologies, COLSA's Data Scientists have extensive experience with multi-source and multi-format data, various natural language processing (NLP) approaches, leveraging advanced algorithms, and exploitation of the knowledge base.

Enhanced Signals Analysis

COLSA's machine learning-enhanced signals analysis solutions solves challenges related to the increasing complexities of modern and dynamic signal processing environments including satellite communications, radio frequency, electro-optical, and acoustic environments.

Scientific Machine Learning

Our Data Scientists utilize sparse regression to narrow down a massive list of features and relationships to only those with strong predictive power. Using Physics Informed Neural Networks (PINNs), they can leverage automatic differentiation to calculate complex gradient spaces enabling the use of partial differential equations to train models and discover properties of systems.
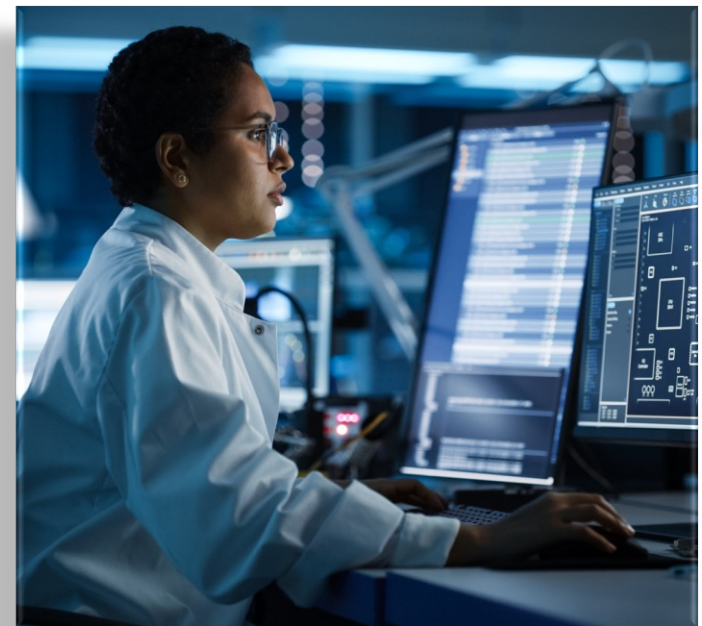
Delivering Modern, Secure, and Scalable Solutions and Services for Our Nation's Most Critical Defense, Law Enforcement, and Intelligence Missions.

High Performance Technology and Scientific Computing
Highly scalable, composable, and vendor agnostic hardware and software solutions that meet emerging mission needs.

Cloud Solutions and Next Generation Networks
Innovative networks to enhance speed while securing our Nation's most critical information assets, including cloud migration solutions.

Computational Analysis Solutions
AI/ML, modeling, and simulation capabilities that put data to work to deliver emergent threat analysis to the field, at mission speed.

Enterprise Information Technology (IT) Services
360-degree technology services, amplifying the impact of continuous improvement to return value to the warfighter.

Strategic Technology Modernization
Digital modernization roadmaps and execution to lower total cost of ownership and provide a modern ROI.

Enterprise Data and Knowledge Management
Data aggregation and administration solutions for all-source intelligence, allowing people to focus on what matters most.

Providing Comprehensive System Lifecycle Solutions with Expert Analytical Services and Program Management

Acquisition and Program Management
Managing the acquisition process using effective analytical techniques.

Acquisition Logistics
An integrated approach to providing full range acquisition logistics, ensuring the U.S. Armed Forces are always prepared and ready to meet their mission.

Operations and Sustainment
Planning the deployment of a system into your production environment is vital to identifying root causes and resolutions for safety and critical readiness degrading issues.

System, Engineering and Technical Services
Our specialized engineering and technical experience provides support to complex programs from aircraft platforms to weapons systems to space systems.

Studies and Analysis
Data Management services provide technology solutions, freeing internal resources to work on core services and strategic initiatives.

SYSTEMS AND SOFTWARE ENGINEERING

Executing Agile, Advanced Systems and Software Engineering Solutions for Customers Worldwide

Command and Control of Electronic Warfare: Operational View / Logical Concept (OV/NAVv4 L2-L3)

Systems Engineering
Scalable systems engineering support provides our customers with innovative solutions.

Software Engineering
Leveraging cutting-edge technology to produce solutions that meet the most complex and challenging mission problems.

Test Engineering
Continuous testing that delivers quality products quickly.

Information Technology
Combining the latest technology and innovations to improve how our customers operate.000

COLSA Software Factory   **COLSA Data Science Lab**

COLSA Engineering Collaboration

TStorm System of Systems TS-M800

- COLSA designed sUAS that optimizes the mission for the Army use case on the training range

- Placed on the approved list of non-COTS American sUAS currently routed for approval by the Deputy SECDEF

- Operate the only Army approved swarming capability at the Combat Test Centers

- COLSA developed a full MCoE Training Support Package used to train Soldiers on sUAS swarm operations

Dolus C4I

- Development and maturation of reliable Unmanned Surface Vehicle (USV) autonomy with goal of fully autonomous USV operations at sea for up to 90 days

- Assisting in the development of a fleet integrated C4I system for USV

COLSA INNOVATION ENTERPRISE

COLSA Software Factory

The COLSA Software Factory develops and deploys software products in a quick and cost-effective manner. Our agile process encourages stakeholder participation throughout development, ensuring the highest priority functionality is delivered first. The COLSA Software Factory is appraised at CMMI-3.

- Big Data
- Cloud Computing
- Machine Learning
- Mobile Development
- Artificial Intelligence
- Data Mining
- Social Media Analytics

COLSA Scientific Computing Lab

COLSA's Scientific Computing Lab serves as an epicenter for research, development, and testing of scientific, composable, and adaptive hardware and software solutions. The lab is directed by COLSA Fellow PhDs and SMEs who are industry leaders in scientific computing. Our lab supports capabilities for customers who have resource-intensive, AI/ML/DL, and scientific computing workloads, such as:

- Defense Intelligence Agency (DIA) – Missile and Space Intelligence Center (MSIC)
- U.S. Army Corps of Engineers (USACE) – Engineering Research and Development Center (ERDC)
- Army Futures Command - Army Research Lab (ARL)

COLSA Cyber Solutions and Innovations Lab

The COLSA Cyber Solutions and Innovations Lab is a remotely accessible and completely virtualized environment that stimulates both typical enterprise networks as well as public operating space.

- Utilization of a routed and switched network that separates public and private networks
- An attack infrastructure that uses command and control (C2) direction as well as simulated Virtual Private Network (VPN) capabilities from simulated Internet space to internal network space
- Ability to perform deep log analysis and network traffic analysis on any system placed in the virtualized environment.

COLSA Data Analysis and Computational Sciences (DACS) Lab

The COLSA DACS Lab maintains an on-going research focus to advance solutions within scientific machine learning. The DACS Lab consists of multiple research and development environments to include an ability to work with operational mission data and unique mission specific prototype development environments..

- Framework and platform supporting full-scale Machine Learning OPS (MLOps).
- Supports end-to-end capability delivery from model development to deployment and operations
- Minimizes the need for custom software, systems, and integration and saves our customers time and money.

NSSC NTSS Contract Overview

- NTSS – NASA Transformational Shared Services
- 8-Year Contract valued at $400M
- Primary support contract for NSSC located at SSC
- Approximately 300 contractors hired
- 14 different companies plus COLSA
- Several SB goals assigned and met or exceeded

- **COLSA Diverse Team of Subcontractors**
  - Across all SB Categories
  - Extensive Experience specializing in Grants, SBIR, etc.

- **Employee Data**
  - Average Number of Contractor Employees – 300
  - Exempt positions 63% and SCA (*non-exempt*) positions 37%
  - Population Female – 77% and Male – 23%
  - Position Requirement:
    - Years of experience – 0 to 15
    - Educational requirements – high school to Masters Degree
  - Majority of employees are local:
    - Mississippi – 72%
    - Louisiana – 16%
    - Nationwide – 11%
      - AL, CA, CO, FL, GA, ID, KS, MA, MD, NC, OH, TX, TN and VA.

NTSS Small Business - 34% Requirement

Pie chart values: 1.0%, 5.0%, 10.0%, 10.0%, 9.0%, 6.0%
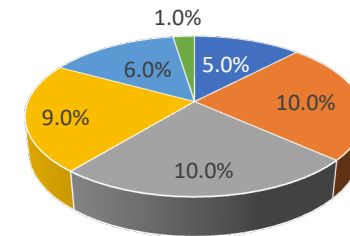
- Small Disadvantaged Business Concerns (SDB) - 5%
- Women Owned Small Business Concerns (WOSB) - 10%
- Veteran Owned Small Business Concerns (VOSB) - 10%
- Service-Disabled Veteran-Owned Small Business Concerns (SDVOSB) - 9%

WHY COLSA?

Small Business Roots

COLSA grew up in the small business arena and thoroughly understands the purpose and goals of the small business programs. COLSA's understanding and commitment to these programs are reflected in all of COLSA's subcontracting goals.

Diversity and Inclusion Emphasis

Diversity and inclusion - the capstones of fostering a successful work culture.

Small Business Supportive

COLSA has a proven record of supporting programs that encourage subcontracting to small, small disadvantaged, woman-owned, HUBZone, veteran-owned, service-disabled veteran owned firms, and Historically Black Colleges and Universities/Minority Institutions. We have served in an official Mentor capacity for small businesses through entity Mentor-Protégé programs.

Employees Focused

An environment that puts our Employees first.

- We strive to provide a family-friendly environment in which to work. Our employees enjoy flexible work schedules and reduced work hours to assist with the challenges of work/home issues. We also provide a generous leave program that includes 10 paid federal holidays and accrued annual leave that is immediately vested.

COLSA's Small Business Initiatives

COLSA is looking to establish relationships with small businesses who have initiatives in the following areas:

Cybersecurity and Information Warfare	Operations and Sustainment
System Engineering and Integration	Systems Studies and Analysis
Test and Evaluation	Computer Engineering and Operations
Software Engineering	Data Science
Information Technology	Information Management
Acquisition Management	Program Management
Financial Management	Other Technical Areas that Support our Long-Term Corporate Vision

Barry Gosnell
President / COO
bgosnell@colsa.com
(256) 964-5239

Cathy Dickens
Executive Vice President, Business Management
cdickens@colsa.com
(256) 964-5213

Terry Jackson
NTSS Program Manager
tjackson@colsa.com
(769) 204-0322

Rob Harris
Vice President, Space Solutions
rharris@colsa.com
(256) 964-5335

www.COLSA.com

COLSA

More ways to contact us

SBACTIONS@COLSA.COM

Send us your capabilities statement
Ask to be added to any small business press releases

TIM MAGNUSSON

SMALL BUSINESS LIAISON OFFICER

TMAGNUSSON@COLSA.COM

ASHLEY DAUGETTE

SMALL BUSINESS ADVOCATE

ADAUGETTE@COLSA.COM

www.COLSA.com