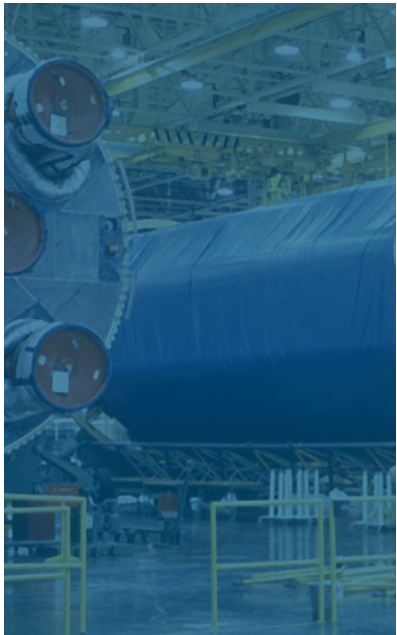
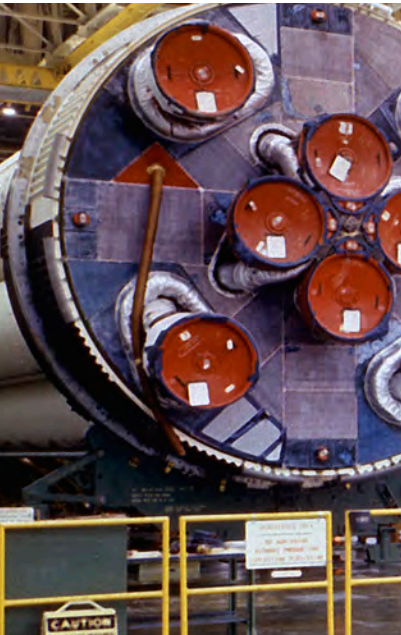
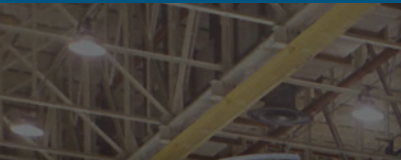


ENGINEERS

CONSULTANTS

DESIGNERS

SURVEYORS



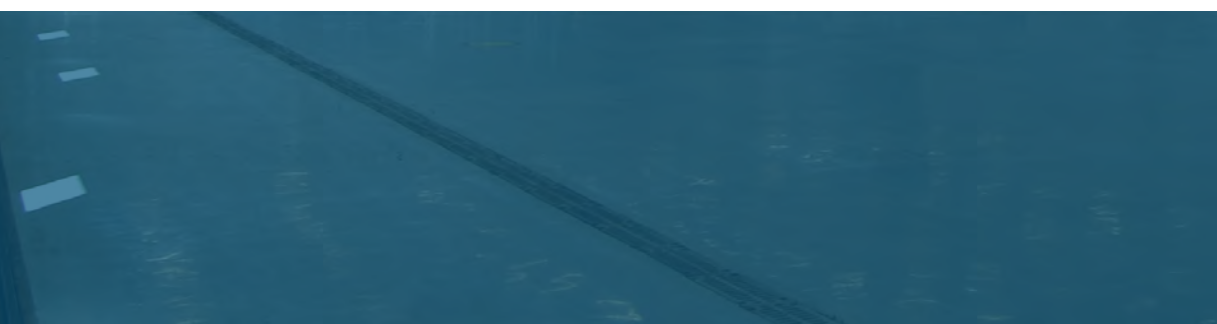
# GOVERNMENT

FULL DISCIPLINE CONSTRUCTION ENGINEERING



G|S|E

CONSULTING ENGINEERS



# NOTABLE PROJECTS



**AIRBUS MILITARY**  
MOBILE, AL

Airbus Military NA (previously CASA NA) needed a Maintenance Repair and Overhaul facility in North America to service their customers in the Western Hemisphere. The project included a 29,500 square foot hangar and office building. The work was completed as a design/build project with Dunn Building Company. This award winning structure came in on time and under budget. GSE provided all design services for the project including civil, structural, mechanical, electrical, life safety and fire protection.



**EGLIN AIR FORCE BASE**  
OKALOOSA COUNTY, FL

EOP Processing and Storage facility consolidates operations, support, wing plans, emergency operations and command post facilities to direct functions associated with the Combat Search and Rescue Mission on Moody AFB and geographically separated units. The EOD Barracks building is a three-story structure totaling 174,000 square feet and was constructed as a design-build project. GSE's design included fire alarm and mass notification systems for the entire building. The design included a fully sprinkled building with a brick masonry exterior. Other features included: DoD Antiterrorism Standards, comprehensive interior design, landscaping, commissioning, and LEED Gold Certification.



**SHAW AIR FORCE BASE**  
SUMTER COUNTY, NC

GSE provided engineering design and inspection services for all life safety and passive fire protection systems throughout the project. These services included underground water supply, mass notification system fire sprinkler, standpipe systems and seismic protection. Project included Retrofitting fire protection in existing active Air Force Command Areas providing Command Support for Air Force efforts in the Middle East. Due to High Security issues, GSE provided on-site daily oversight of changes necessitated by unknown variables.



**DAPHNE CITY HALL**  
DAPHNE, AL

In collaboration with Gatlin Hudson Architects, GSE provided all structural engineering for the renovation of the existing 10,000 square foot Daphne City Hall and the 30,000 square foot addition. The complex architectural design of the building called for numerous structural systems including precast concrete, load bearing masonry, architectural structural steel, and exposed timber.



**AL SUPERCOMPUTER**  
HUNTSVILLE, AL

GSE has provided mechanical, electrical, and fire protection design on multiple projects for Alabama Supercomputer Authority. Scope of work included full fire alarm design to providing, study to determine if existing Halon system should be replaced with a more eco-friendly agent, design and project management for HVAC upgrades, and bid preparation. Additionally, GSE was tasked with construction management and start-up of the fire system installation.

# NOTABLE PROJECTS



**COMMUNITY SAFE ROOM**  
OCEAN SPRINGS, MS

GSE provided full engineering services for the community and recreation center planned for construction at the Gay-Lemon Park in Ocean Springs, MS. The ten acre site currently houses soccer and baseball fields. Scope of work included structural, mechanical, electrical, civil, and fire protection design for the 18,000 square foot facility. The building was designed to withstand 200 mph winds in strict accordance with FEMA 361 in order to later be used as a storm shelter.



**NAVFAC**  
PASCAGOULA, MS

This facility consists of housing and support facilities for service members to reside while ships are being outfitted at Ingalls Shipbuilding in Pascagoula. The Lakeside building, which obtained LEED Silver Certification, is a two-story structure totaling approximately 200,000 square feet on a 37 acre site and was constructed as a design-build project. The design included spaces for residence, exercise, food service, administration, and utility. The scope of work included a fully sprinkled building with a brick masonry exterior and a new asphaltic roof. Utilities included: domestic and fire water services, sanitary sewer connection, electrical and gas service, Mass Notification systems, storm drainage and water quality design. The building design included precautions for flooding, as Hurricane Katrina flooded the first floor of the facility in 2005.



**TEMPORARY INMATE HOUSING**  
ORLEANS PARISH, LA

Existing facilities on the site, Templeman III and IV Jail, were demolished in 2007 due to damage sustained from Hurricane Katrina. GSE provided full engineering design for phase II in the new Correctional Complex Plan which is a 500 bed inmate housing facility built in New Orleans, LA funded by FEMA. The 40,000 square foot medium security facility consisted of four identical inmate buildings, a two-story visitation and staff building, and outside recreational areas. Scope of work included project management for civil, and survey coordination along with structural, fire protection, electrical, and mechanical engineering design.



**NASA - AREA 47/48**  
NEW ORLEANS, LA

GSE designed modifications to Building 103, a 45,000 square foot facility in Area 47/48, to allow the transition from External Tank manufacturing to Space Launch Systems (SLS) manufacturing. Area 47/48 will be used for the final integration of SLS core stage subassemblies which will include liquid hydrogen tanks, engine sections, intertanks, liquid oxygen tanks, and forward skirts. In addition to final integration of the above listed subassemblies, Building 103 will also house the installation of engines, feedline and press lines, systems tunnels with applicable wiring, and final testing and systems checkout. GSE provided structural, mechanical, electrical and fire protection design services for the renovated facility.



**COMFORT STATIONS**  
GULFPORT, MS

GSE partnered with Eley, Guild, Hardy Architects to provide engineering services for several elevated comfort and bus stations. With a total of four built along the Gulf Coast, the 2500 square foot structures were designed to withstand 200 mph winds and the high loads resulting from storm surge. Scope of work included electrical, mechanical, and plumbing design. The naturally-ventilated restrooms were designed to be hosed down for cleaning. Additional measures were taken to ensure rainwater penetration via absorption would not cause any issues down the road.

# SERVICES

## CIVIL

Site Plan Development/Master Planning  
Paving, Grading & Drainage Design  
Stormwater Modeling  
Site Utilities  
Erosion Control/SWPPP  
SWPPP Compliance Inspections  
Roads/Transportation

## SURVEY

Boundary  
Construction Staking  
Elevation Certificate  
Roadway Layout  
Topographic  
Utilities  
Crane Alignment  
Control Surveying  
As-Builts  
Easements  
ALTA Survey  
3D Scanning

## CONSTRUCTION SERVICES

Environmental Permitting  
Construction Inspections  
Cost Estimating  
Program Management  
Construction Management  
Procurement

## ELECTRICAL

Medium Voltage  
Transformers  
Switch Gears  
Ductbank/Distribution  
Substation Layout  
Motors  
Grounding  
Low Voltage  
Panel boards  
MCC/Switch Boards  
Lighting  
Lightning Protection  
Data/Telecom  
Security  
Access Control  
PA Systems  
Wireless Access Points  
Fiberoptics  
Photovoltaics  
Power Studies  
Arc Flash  
Short Circuit  
OCPD Coordination

## SPECIALTY

Design-Build  
BIM  
LEED  
Fast-Track  
Site Selection

## MECHANICAL

HVAC Systems  
Plumbing  
Ventilation Systems  
Dust Collection  
Medical Gas  
Hazardous Exhaust Systems  
Paint Booths  
Fume Hoods  
Smoke Evacuation  
Stairwell Pressurization  
Clean Room Design  
Boiler System Design  
Conveyors/Material Handling  
Building Automation  
Energy Modeling

## BUILDING

General Arrangement  
Interior Design  
Life Safety

## PROCESS/CHEMICAL

Piping  
Instrumentation  
PFD  
P&ID  
Equipment Specification  
Pressure Vessels  
Stress Analysis

## STRUCTURAL

Deep Foundations  
Equipment Foundations  
Steel Framing  
Load Bearing Masonry  
Load Bearing Metal Stud  
Precast and Tilt-Up  
ICF (Insulated Concrete Forms)  
Concrete Restoration  
Forensic Analysis  
Historic Preservation  
Seismic Retrofit  
FEMA/Tornado/Wind Resistant Design  
Blast Design

## FIRE PROTECTION

Active System  
Sprinkler/Stand Pipe  
Fire Alarm  
Clean Agent  
Foam  
Passive System  
Life Safety  
Fire Ratings  
Performance Based Solutions  
Insurance/Underwriter Consultation  
Fire and Egress Modeling  
Smoke Management  
Fire Pumps/Water Supply  
Failure Analysis

# ABOUT US



Responsible for over \$6B in capital investments, GSE is a full-discipline engineering firm licensed in over 25 states. Founded in 1998, GSE has a wide variety of experience in industrial, commercial and government projects. Industrial clients include Airbus Final Assembly line, SSAB Steel Mill, and Mobile Container Terminal. GSE has also completed upgrades to NASA's rocket assembly facility which is driving America's new space launch system. Hundreds of commercial designs range from high rise condominiums to restaurants, academic and medical facilities. Founded on the principle of sustainable design, GSE has implemented a controlled growth model to maintain the highest level of quality and personal service.

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FAX: 615.829.8491  
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NASHVILLE, TN 37203

### LICENSED STATES

ALABAMA  
ARIZONA  
ARKANSAS  
COLORADO  
CONNECTICUT  
FLORIDA  
GEORGIA  
INDIANA  
IOWA  
KANSAS  
KENTUCKY  
LOUISIANA  
MARYLAND  
MASSACHUSETTS  
MICHIGAN  
MISSISSIPPI  
MISSOURI  
NEW YORK  
NORTH CAROLINA  
OHIO  
OKLAHOMA  
PENNSYLVANIA  
SOUTH CAROLINA  
TENNESSEE  
TEXAS  
VIRGINIA

