



Our engineering design services emphasize aesthetic and innovative engineering solutions with specialties in creative development design.

ENGINEERING DESIGN

About HSA

HSA Engineers & Scientists

(HSA) provides full-service environmental, geotechnical, engineering design, construction, forensic and litigation support services. Since our formation in 1989, we have provided comprehensive, integrated engineering solutions and are well-known for our pioneering engineering research and expertise.

Our large, diverse, and highly qualified technical staff remains our primary resource, and includes more than 300 professional practitioners with backgrounds in engineering, geology, soil physics, chemistry, toxicology, water resources, biology, ecology, hydrogeology, hydrology, statistics, construction management, and information management. Our unique combination of technical and regulatory experience consistently provide innovative and effective consulting services for private industry, commercial entities, the legal profession, government agencies and institutions, and the insurance industry. Given the diversity of our staff and consulting solutions, HSA has the ability to offer a true integrated approach to business issues that combines insight and innovation from multiple disciplines with a wide range of industry knowledge to help organizations excel anywhere in the world.

Our multidisciplinary professionals offer expertise throughout a building's life cycle.

In our world, opportunity has many forms. It can be the value added when a piece of land is planned and engineered to its highest potential, or a complex public works project is delivered on time and within budget. In all cases, it is the creation of places in which people live, work and thrive. With a blend of idealism and practicality, HSA's engineering design staff provides our clients with decision-making tools that achieve more with less. As experienced engineers and consultants, we are a valuable resource for our clients. They rely on us for design input, technical expertise and optimal project performance. Whether you are driven by budget constraints, site limitations, or regulatory concerns, we're focused on providing integrated and cost-effective solutions for your design needs.



From roadway systems to regional developments, from office buildings to museums, HSA designs the structures and infrastructure necessary to improve quality of life and sustain economic growth. Policy frameworks, regulatory requirements, public improvements, and the face of urban and suburban development are constantly changing. We help our clients manage change in ways that transform communities and creates opportunity. We value detailed planning and solid engineering, but what sets us apart in the design community is our consideration of all aspects of a project's design, development, and impact.

Our objective is to be a trusted partner of the project team and be responsible for creating a product that everyone involved can be proud of. Consequently, we work closely with municipalities, developers, architects and utility companies to ensure a successfully coordinated project. We have a great deal of expertise working with private developers, architects, industry leaders, and land owners. We work collaboratively with clients, regulators, and the local community towards implementable design solutions. Our success stems from our attention to detail and client service while providing high quality civil engineering designs.



OUR SERVICES

Civil Engineering

- Bidding & Construction Phase Services
- Conceptual Site Plans & Feasibility Studies
- Parking Area Planning & Design
- Permitting
- Rezoning
- Roadway Studies & Design
- Paving, Grading, & Drainage
- Stormwater Management
- Stormwater Pollution Prevention Plans
- Sanitary Sewage Planning, Design, & Permitting
- Transportation & Traffic Engineering
- Water Distribution Facilities Planning, Design, & Permitting
- Sewage Collection Facilities Planning & Design
- Water, Sewage Pumping Stations & Treatment Plants
- LEED® Commissioning

Mechanical Engineering

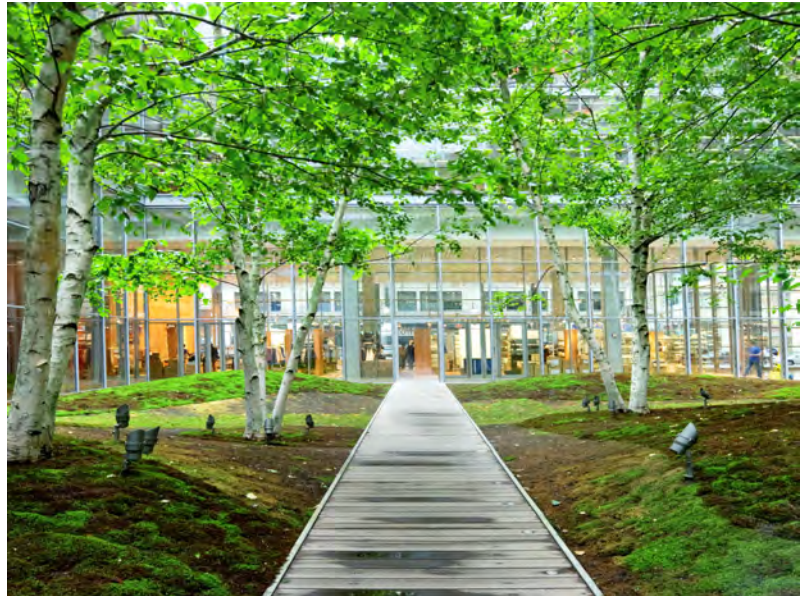
- Central Energy Plants
- Ice Thermal Storage
- Designs for Energy Efficiency
- Master Planning
- Heating, Ventilation & Air Conditioning
- Energy Calculations
- Life Cycle Cost Analysis
- Comfort/Process Cooling
- Compressed Air
- Temperature/Humidity Controls
- Building Pressurization
- Failure Analysis
- Products Liability

Electrical Engineering

- Primary & Secondary Power Distribution Systems
- Power Generation
- Emergency Engine/Generator & UPS Systems
- Energy Audits
- Communication Systems
- Fire & Alarm Systems
- Fault Current Analysis
- Indoor Lighting Systems
- Street, Site, & Sports Field Lighting
- Electronic System Analysis
- Electrical Equipment Examinations
- Electrical System Distributions

Plumbing/Fire Protection

- Sanitary Sewer & Grease Waste Systems
- Storm Drainage Systems
- Reuse Water Systems
- Potable Cold & Hot Water Systems
- Medical Gas Systems
- Medical Vacuum Systems
- Fire Sprinkler Systems
- Fuel Gas Storage & Distribution Systems
- Fuel Oil Storage & Distribution Systems
- Compressed Air Systems



Structural Engineering

- Residential Buildings
- Commercial Buildings
- Institutional Facilities
- Industrial Facilities
- Municipal Facilities

We bring our expertise to you.

HSA's organizational structure enables us to bring our expertise from personnel in any office to any project, regardless of locations. Our network of offices, our ability to mobilize rapidly wherever our clients need us, and our ability to establish offices in new locations to support our clients enable us to apply our resources and knowledge locally.

locations



Corporate Office - Tampa, Florida

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Houston, Texas

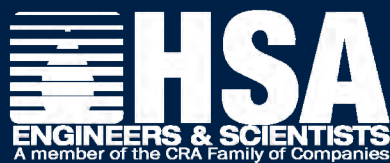
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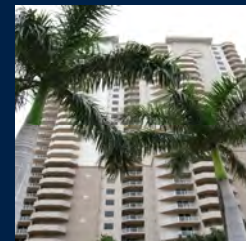
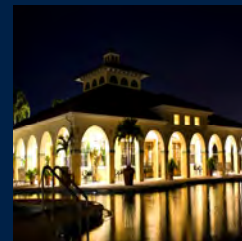
services |

- Accident Reconstruction
- Building Sciences
- Construction Services
- Drilling
- Ecological Services
- Engineering Design
- Environmental Engineering
- Fire Investigations
- Geotechnical Engineering
- Geophysics
- Litigation Support
- Materials Testing
- Structural Forensics
- Water Resources Management



Snap it with your Smartphone for more information about our services.

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**Engineering services performed in North Carolina by our affiliate HSA Engineers and Scientists of North Carolina, Inc.*