



DIRECTOR'S MESSAGE

Clemson Engineering Consultants began life with a simple vision of delivering exceptional value to our clients. It is the zeal for providing innovative building services solutions to complex problems that drives us.

The UAE, being the most humid and hottest place on the planet, poses a unique challenge for designing solutions in the MEP sector. Also, the growing trend towards providing sustainable solutions means tightening screws on energy usage.

We, at Clemson, are geared up to meet these challenges head on by providing innovative solutions. Our design philosophy, talented workforce and the desire to excel have all synchronized to give direction to this endeavour.

We expect nothing but the best from our people and that in turn means that we offer nothing but the best to our clients. We ensure that our clients' get a seamless, transparent and end-to-end service experience for all the projects we work on. Our focus on customized, innovative and technology driven solutions to our customers' needs shall continue to be our driving force in the coming years.

In the future our goal is to innovate ourselves in the best possible manner so as to serve and provide an outstanding service to our clients and customers thus enabling us to cross many milestones. I firmly believe that our organization can achieve new heights in the coming years and that we could also take a major part in contributing to sustainability in the construction industry.

With a sound strategy in place, coupled with fertile economic environment provided by the UAE, we are in a strong position to move ahead and seize attractive market opportunities as they arise.





CLEMSON

Engineering Consultants

Clemson Engineering Consultants is a multi-disciplinary engineering consultancy offering a range of MEP design services including HVAC, electrical, plumbing, fire protection, security and information technology systems.

We cover a broad range of solutions including analysis and concept, construction budgeting, detailed services documentation and construction administration.

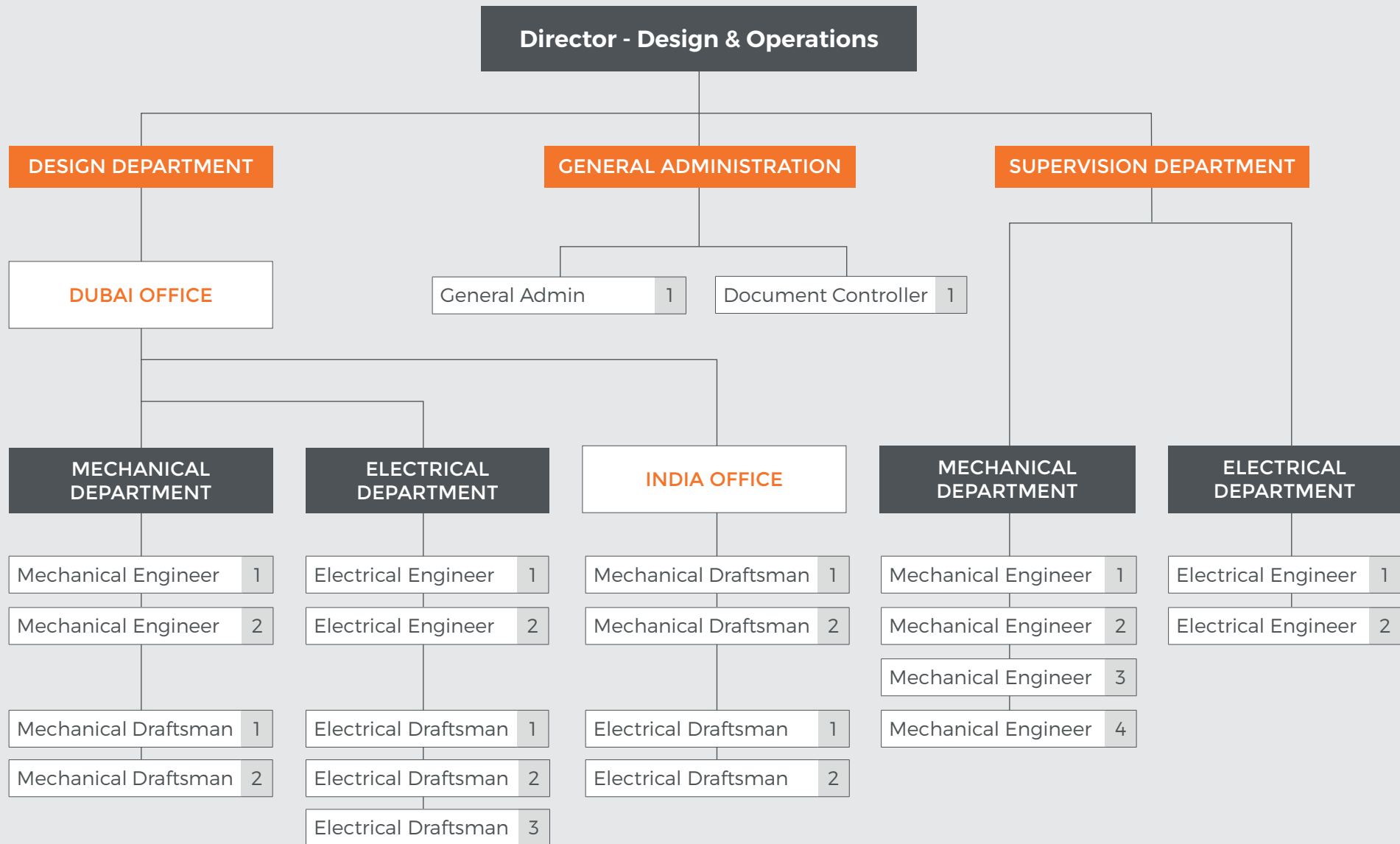
The team associated with Clemson has substantial experience in the design, construction and commissioning of high performance green buildings, emphasizing integrated design and operational strategies for sustainable site development, water conservation, energy efficiency, resource conservation and indoor environment quality.

Our dedicated and diverse team's full service approach to projects provides innovative designs, technical quality and exceptional service. We are committed to responding to the needs of our clients, whether down the street, across the country or around the globe – and strive to establish long term relationships.

We, at Clemson, have always kept the interests of our clients at the forefront. Through constant innovation and research abilities, we have not only been able to bring down the initial costs for our clients but have also been able to substantially reduce the operational costs over the lifecycle of the systems installed.

**For building a better tomorrow you can
always count on us.**

ORGANIZATION CHART





OUR MISSION

Our core mission is:

“To help people turn their vision into reality while benefitting the society and the environment.”

At Clemson our mission is to design and deliver the best quality engineering services with creativity, integrity, commitment and prompt response. Our design team works with every client, from large companies to individual client, to determine their goals. We are committed to designing projects that maximize the value our clients receive from their investment. We devote our talents and resources to completing projects on schedule and within our client's budgetary constraints.

Our professional inspiration and satisfaction is derived from the fact that our work benefits society – it helps make the world a better place. We strive to:

- Provide the best service and value for our clients.
- Foster the most challenging and rewarding career opportunities.
- Extend our services to new clients.
- Promote continuous improvement.
- Inspire unsurpassed commitment to the success of each other and the firm.
- Cultivate a high-energy, collaborative, creative and fun work environment that fosters improved team dynamics.
- Make great contributions to society.



DESIGN PHILOSOPHY

Since no two facilities are alike, engineers and designers at Clemson Engineering Consultants customize their designs to meet the unique needs of each facility. We begin by understanding the client's goals and evaluating the alternatives before finalizing any approach.

Our experienced professionals collaborate to apply their knowledge of current engineering standards and codes to develop integrated solutions that meet the client's and the facility's goals while also considering space constraints, budget, schedule and other unique requirements for the project.

QUALITY ASSURANCE

At Clemson, quality assurance (QA) is a continuous process that begins by defining and understanding a project's scope and continues through the design, construction and final close-out phase. We enforce a thorough review process involving project managers, designers and quality assurance reviewers and hold QA coordination meetings at critical stages of every project. In addition, our senior engineers perform a final detailed technical review of each drawing before project delivery.

Clemson uses industry-standard QA resources in addition to our own in-house Quality Assurance Manual. Over the course, Clemson has applied the experience of our technical staff members to developing and maintaining vital in-house resources to guide the QA process. Some of these resources include a Project Responsibility Chart to clearly define the role and responsibility of each team member; a Drawing Checklist to ensure that all required drawings are accurate and thorough and a Mechanical/Electrical Coordination Schedule to confirm that all disciplines have been properly integrated into the design.



Our approach is the same for every project: work closely with the client from assessment through construction to prioritize and meet their needs. Our project development phases focus on providing value at every stage:



PROJECT INITIATION

- The Clemson project team is assembled.
- The team meets with the client to discuss and clarify the project's scope, budget and schedule.
- The team establishes project reporting procedures and decision-making processes.
- When necessary, the team identifies and selects sub-consultants. All sub-consultants utilize Clemson CAD standards, design standards and software.
- The team reviews relevant reports, studies and plans such as previous master plans, renovations, mechanical and electrical system and maintenance upgrades, building plans and documents, historical records and client standards and guidelines.
- The team then creates a detailed work plan.



SCHEMATIC PHASE

- The team assesses the clients' needs, i.e., identifies and documents operational and strategic objectives.
- Systems schematics and outline specifications are prepared.
- Schematic estimates of probable construction costs based on identified scope are prepared.
- A schematic report, outline specifications and engineer's estimates of probable construction costs are created based on client priorities and budget.



DESIGN DEVELOPMENT PHASE

- Design development floor plans and system schematics to identify equipment locations, utility distribution routing, systems zoning and project phasing are prepared.
- The first draft of technical specifications for systems materials and installation requirements are prepared.
- Design development estimates of probable construction costs are developed.
- Previous needs assessments are reviewed, schematic phase needs are confirmed and client design concerns are addressed.
- The team participates in the design development review meeting to review value engineering options, assess systems design, finalize implementation and packaging of contract documents, and refine the project schedule. Design development plans and technical specifications are prepared for review and approval by the client.



CONTRACT DOCUMENTS

- Contract documents are prepared for competitive bidding based on approved design development documents.
- If necessary, separate bid packages are prepared accordingly to accommodate project scheduling.
- Estimates of probable construction costs are prepared based on refinement of project scope and adjustment to contingencies.



BIDDING

- Team members attend pre-bid conferences and walk-throughs with contractors/suppliers.
- Addenda required for clarifications to the bidding documents are submitted.
- The team reviews bids and makes recommendations to the client regarding award of contracts.



POST DESIGN AND CONSTRUCTION SERVICES

- Respond to contractor's request for information
- Review construction shop drawings and submittals
- Perform field inspections
- Perform post occupancy evaluations
- Assist the client in the formulation of lessons learned
- Provide occupancy planning including development of move schedules, cost estimates, inventory lists
- Provide telecommunication and computer coordination
- The team reviews schedule of values and the contractor's installation schedule.
- Project managers attend scheduled project meetings and prepare meeting minutes.
- Team members conduct periodic pre-approved site visits to review work progress and progress payment applications, and verify installation conformance to contract documents.
- On-site systems start-up training sessions are scheduled with contractors, suppliers and owner representatives.
- The team conducts final site observation inspection and completion of documentation.



SYSTEMS COMMISSIONING

- Clemson recommends that we be retained to provide commissioning for your mechanical and electrical building systems in order to confirm that these systems are installed and performing to the standards for which they were designed.
- The commissioning process involves ongoing interaction with the client and the installing contractors during the construction phase of a project. The process involves installation verification, operational performance testing, functional performance testing, owner training and preparation of a final commissioning report, i.e., documentation compiled during the commissioning process.

In the end, Clemson strives to deliver designs that:

- **Meet the client's goals and budget requirements**
- **Are properly sized and designed to operate efficiently**
- **Are fully integrated with all disciplines**

QUALITY POLICY

Clemson Engineering Consultants is committed to an approach to its work that embodies quality, and concern for the environment.

Quality policy

Mission: To shape a better world.

Objectives: To achieve this, the firm aims to:

- meet the needs of its clients by providing services of recognized value
- seek continued enhancement of its performance through improved processes
- create conditions where people of high ability are attracted to work in the firm
- achieve local delivery of the firm's global knowledge and skills, through the provision of networks, supported by appropriate training and facilities
- maintain honor and mutual respect in relationships with clients, members of the firm and collaborators
- operate within a management system which meets the requirements of international standards.



Outcome: In meeting these objectives, the firm will:

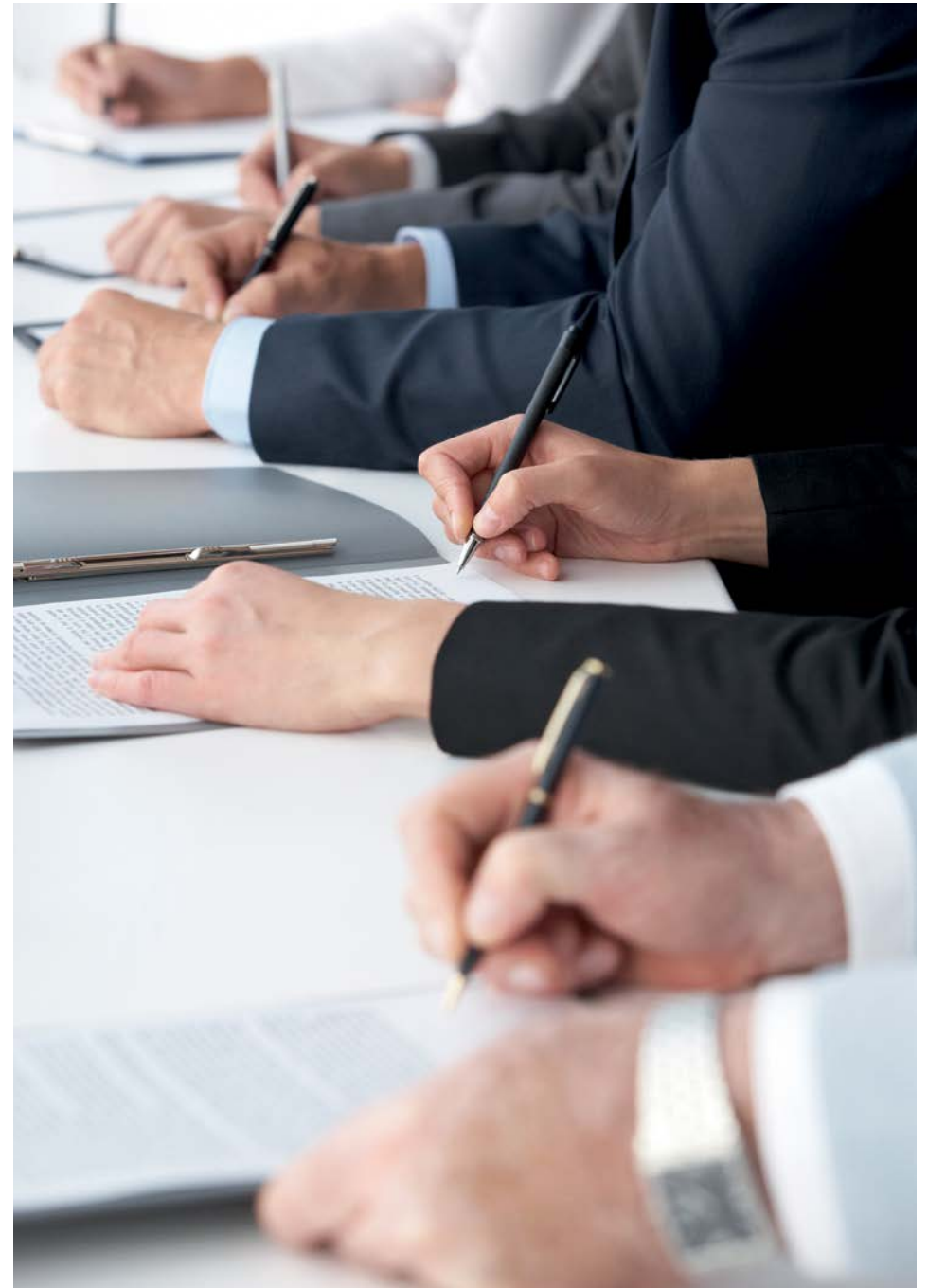
- deliver projects which are recognized for their quality
- provide opportunities for staff to develop rewarding careers
- achieve a performance which will sustain the long-term success of the business
- this will result in the firm being known for the excellence and creativity of all that it does for clients and for society at large.

EDUCATION / TRAINING & RESEARCH

There was a snippet circulating the internet where the CFO asks, “What happens if we invest in developing our people and they then leave us?” And the CEO responds, “What happens if we don’t, and they stay?”

Our investment in education and training is a wise investment for the benefit of both our clients and our people. The people we collaborate with depend on us to have the capability and credibility to deliver our services in a professional and efficient manner. Our education and training effort touches every aspect of the business from continuing education to project management and customer service.

Exploring new techniques and developing new tools are essential to remain ahead of the market. Developments in 3D design, BIM, simulations, building physics and fluid dynamics – which have influenced and benefited engineering and design industries – are part of our upcoming commitment to research and development.



WHY CLEMSON

Why Clemson? This is a question that many of our prospective customers ask when they are considering resources for their engineering and project needs. The following are some of the reasons Clemson Engineering Consultants is the right partner for your next project.

LONGEVITY

When considering engineering partners, our customers want to know that the time and money they are investing to build a relationship will be money and time well-spent for the long run. Clemson has an ability of providing top quality engineering services. We focus on developing partnerships for the long term and look forward to adding you to the list.

You benefit with a partner that will be there for the long term and act as an extension of your own engineering resources.

A BETTER PROCESS FOR SUCCESS

Regardless of the product or service being provided, the most successful companies have turned their production methods into a process, to provide consistent, reliable, high quality solutions for their customers that keep them coming back.

You benefit from our rigorous project approach that leaves no room for guesswork or incomplete project planning, ensuring your success.

EXPERIENCE

When our customers turn to outside firms for assistance, it is because they need a trusted partner that brings the resources and knowledge they need to deliver a successful project. Clemson serves a wide variety of industries. Our project team will bring the knowledge and experience to hit the ground running and ensure success.

You benefit from our industry and technology expertise to help you architect the best possible solution for now and the future.



RESPONSIVENESS AND AGILITY

While Clemson Engineering Consultants is an organization with processes and procedures in place to ensure success, we also recognize that our customers look to us to be responsive and agile. We understand that projects can become high priority quickly and that priorities can change mid-stream. We strive to respond to your needs and be there to help you find the best possible solution to the challenges you face in each project.

You benefit by always having your needs in the forefront and prioritized to meet your most demanding schedule.

SINGLE SOURCE SUPPLIER

There are many aspects to most projects; Pre-Engineering and cost estimation of the overall project, Individual technical skills needed to provide the detailed design, Project management to coordinate all aspects of the project delivery, and Construction management during the installation and startup of the system. Clemson Engineering Consultants can provide all of these services under one roof.

With a single point of contact to manage all aspects of your project needs, you simplify your communications and free up more of your time to deal with day to day aspects of your job.

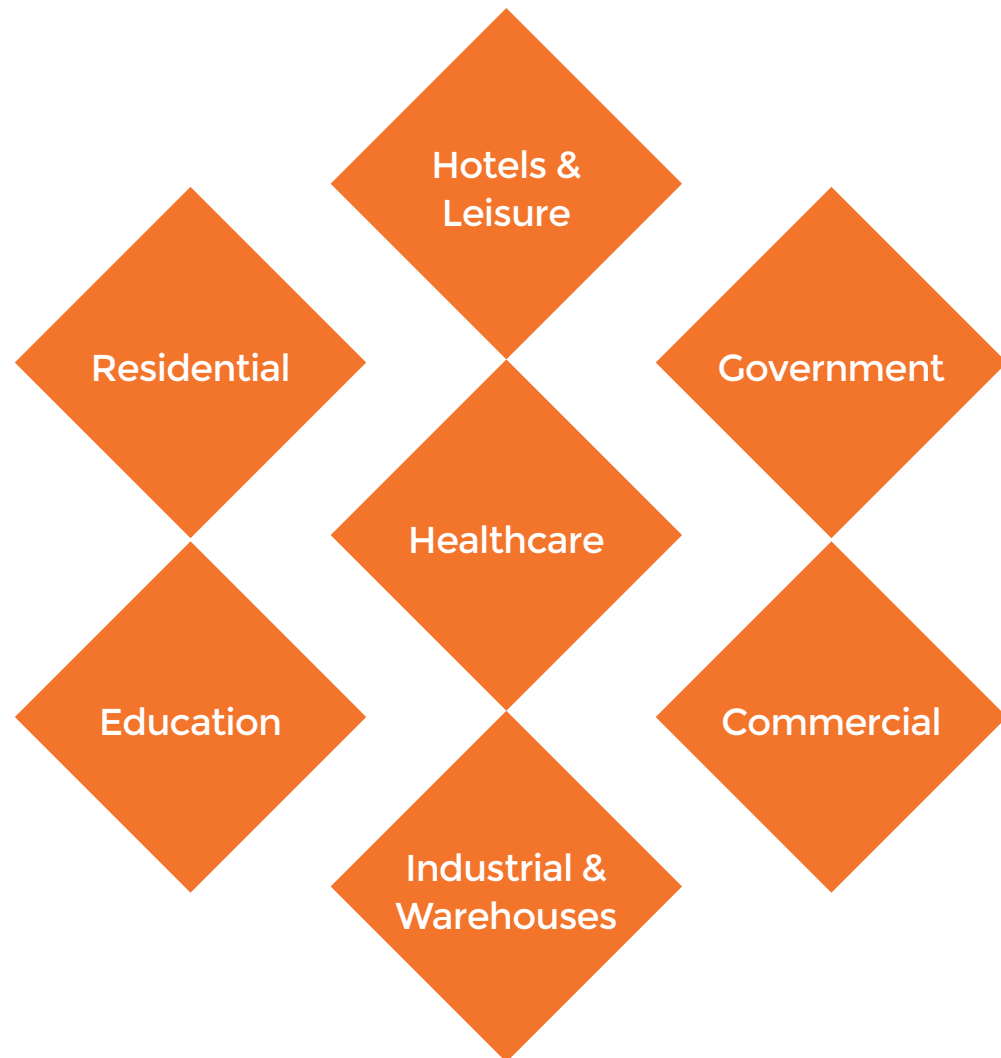
You can be confident in
your decision to choose
Clemson as your partner.
Contact us today to see
how we can get you
started on your
**“Better Process for
Success.”**

MARKETS

In the past few years, Members of our team have built a diverse design portfolio serving clients in several markets. Our practice extends across a broad range of markets.

We know our work lives in context. That's why we stay abreast of trends and needs emerging in the markets we serve. We actively pursue new skills, knowledge and insights that fuel our capacity to provide relevant, hardworking solutions.

In the past few years, the team associated with Clemson has developed expertise in the following markets:



OUR SERVICES

Clemson Engineering Consultants is dedicated to providing innovative Engineering and design services that cover a variety of structures and systems, from building brand new facilities to renovating and rehabilitating those that already exist. Our client experience is far-reaching and includes projects for school, university, healthcare, laboratory, hotels, residential, industrial, mosques, commercial, office buildings, shopping malls and municipal facilities.

Whether we are serving as the prime professional or as a sub-consultant to an architectural consultants or any other professional firm, Clemson provides an extensive list of services within various MEP-related disciplines.

We provide expertise in the following areas:

- HVAC Engineering
- Electrical Engineering
- Plumbing Engineering
- Fire Protection Engineering
- Infrastructure Design
- Security
- Energy Modeling
- Sustainable Design Analysis
- DM Green Building and Estidama Compliant Design
- Life Cycle Cost Analysis (LCCA)
- Building Automation and Controls Design
- Value Engineering
- Lighting Consulting
- Program Management
- Construction Management
- Building Information Modeling (BIM)/REVIT
- Post Design/Supervision Services
- Preliminary Project Budgeting
- Commissioning
- Building Retrofit Design
- Facilities Management Design
- Quantity Surveying
- Troubleshooting Existing Systems

We understand that each project is different, and our engineering and project management services can be customized according to a project's specialized needs. Engineering and consulting services, for example, may range from specialty design with a limited scope, to full design that includes construction documents and field observation.







PROJECTS



PROJECTS



Jebel Ali Residential Community Cluster A&B
Dubai



My Mall
Ajman



South Overbuild
Abu Dhabi



G+P+12 Residential Building
Dubai



North Overbuild
Abu Dhabi



Solomon International School
Dubai



Al Maryah Central Residential/Commercial Building
Abu Dhabi



G+16 Mixed Use Building
Dubai



G+2P+12 Residential Building
Dubai



B+G+6 Residential/Commercial Building
Dubai



Ebeyiyin Hospital
Guinea



LLH Hospital
Abu Dhabi

PROJECTS



B+G+6 Residential/Commercial Building
Dubai



B+G+5 Residential/Commercial Building
Dubai



Shining Star School
Abu Dhabi



G+8 Residential/Commercial Building
Dubai



RAK Dental Clinic
Ras Al-Khaimah



B+G+M+4 Residential/Commercial Building
Dubai



G+2 Residential Building
Dubai



G+1P+8 Residential/Commercial Building
Dubai



2B+G+2 Residential Building
Dubai



B+G+4 Residential/Commercial Building
Dubai



2B+G+5 Residential/Commercial Building
Dubai



2B+G+11+Roof Residential Building
Dubai

PROJECTS



Nova IVI Fertility Clinic
Abu Dhabi



G+2 Residential Building
Dubai



Khalifa Bin Zayed Al Nahyan Hospital
Perseverance Island, Seychelles



G+4 Residential Building
Dubai



G+4 Residential Building
Dubai



G+4 Residential Building
Dubai



Warehouse for MEF
Dubai



G+4 Residential Building
Dubai



G+3 Residential Building
Dubai



100 Villas @ Jebel Ali Village
Dubai



G+1 Townhouses 12 No.s
Dubai



G+1 (147) Town Houses @ Jumeirah Park
Dubai

PROJECTS



G +1 Villa 16 No.s
Dubai



G+1 Villa 5 No.s
Dubai



G+1 Villa 30 No.s
Dubai



G+1 Townhouse Units 5 No.s
Dubai



G+1 Villa 5 No.s
Dubai



G +1 Villa 5 No.s
Dubai



Adel Villa
Dubai



G +1 Villa 22 No.s
Dubai



Horizon English School
Dubai



G+2 Residential Building
Dubai



2B+G+5 Residential/Commercial Building
Dubai



Ali Villa
Dubai

PROJECTS



2B+G+6 Residential/Commercial Building
Dubai



Mahdi Hassani Villa
Dubai



Abdussamad Munshi Villa
Dubai



G+1 Villa @ Palm Jumeirah
Dubai



Private Villa @jumeirah Bay Island
Dubai



Private Villa The Fairway @ Dubai Hills Estate
Dubai



Private Villa @ Palm Jumeirah
Dubai



Private Villa @ Palm Jumeirah
Dubai



Private Villa @ Palm Jumeirah
Dubai



Atiq Villa
Dubai



Gargash Mosque
Dubai



Al Badr Masjid
Dubai

PROJECTS



Wud Flowers
Dubai



Yousaf Villa
Dubai



Al Husaini Masjid
Dubai



Aster Clinic, International City
Dubai



G+1 Villas 2 No.s
Dubai



G+1 Villa
Dubai



Nas Medical Centre
Dubai



Customer Happiness Centre
Dubai



Aster Clinic, Al Muteena
Dubai



Dubai Internet City Building
Dubai



Med Care Eye Center
Dubai



Mandilicious Restaurant
Dubai

ENVIRONMENTAL AND SUSTAINABILITY POLICY

Our Commitment and Role

Clemson Engineering Consultants is committed to business practices, operations, and projects that improve economic, environmental, and societal outcomes. Our comprehensive skills and expertise are a valued resource to clients in support of their sustainability objectives.

As a multidisciplinary engineering firm, our role with respect to the environment is magnified, as the nature of our work affects the environmental sustainability not only of our own operations, but also that of our clients. Clemson's professionals work to minimize and, where unavoidable, mitigate adverse impacts to our environment in both our operations and our services.

Clemson Engineering Consultants will lead by example, thereby demonstrating that a successful project can balance economic, social and environmental goals, ultimately leading to true sustainability. We will also provide real solutions to our clients, enabling them to pursue. Clemson will stay committed to improving the world where we work, live, and play in order to overcome this challenge.

SUSTAINABLE DESIGN CAPABILITIES INCLUDE:

- Building Envelope and Orientation
- Fenestration and Shading
- Low Water Consumption Fixtures
- Daylight Controls
- Energy Recovery
- Displacement Ventilation
- CO2 Monitoring and Demand Control Ventilation

You can be confident in your decision to
choose Clemson as your partner.
Contact us today
to see how we can get you started on your
“Better Process for Success.”



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