

CSI Engineering (CSIE) is a professionally managed **Engineering Design** firm serving the Baltimore/Washington, DC Metropolitan area with numerous small and minority-owned business certifications. Our engineering firm has core capabilities in **Mechanical, Electrical, Plumbing (MEP)**, and **Communication** engineering design services.

CSIE's team is comprised of licensed Professional Engineers (P.E.) and highly qualified designers who are proficient with the latest versions of engineering software and tools. In addition to Engineering Design services, CSIE also provides Construction Administration services to private and public sector owners, facility management companies, A&E firms, and construction companies for various types of Design/Build and Design/Bid/Build projects.

Recently CSIE has added a robust **Ancillary Engineering Services** which includes Staff Augmentation. CSIE also provides **Consulting Services for Complex Mission Critical Environments**. CSIE brings over 36 years of design, consulting, and staffing solutions to a wide range of domestic and international clientele.

MEP ENGINEERING DESIGN SERVICES

CSIE is a leading provider of world-class engineering design services with an emphasis on the application of critical electrical power distribution utilization and control of complex sub-systems. CSIE can deliver innovative solutions, value engineering, green initiatives, and life cycle costs in our deliverables.

Detailed understanding of the client goals, ranging from technology infrastructure requirements analysis to design support of large, multiphase, and multiyear projects allows CSIE to effectively implement its proven solutions. The following are some of CSIE's key engineering services:

- Transit System designs third rail power, electrical Substations, HVAC systems, and Communications support
- Complete Campus and Individual Building Power Distribution System Designs
- Backup and Standby Emergency Power System Designs
- Power System Analysis such as Facility Infrastructure Assessments, Fault Current Calculations, Protective Device Coordination, and Arc Flash Analysis and Labeling
- Electric Vehicle Charging Stations, and Solar Power Systems
- HVAC Central Plants and stand-alone systems, including Chillers, Ice Storage Facilities, Boilers, and related Control Systems
- Mission Critical Facility Infrastructure Planning and Growth Projections
- Lighting, Communication, and Security Control System Designs
- Both "UV" and Standard Lighting for Security and Health System Designs
- Construction Administration, Commissioning, Life Cycle Cost Analysis, and ROI Evaluations

REPRESENTATIVE CLIENTS

- **Transportation** projects at WMATA, MTA, MAA, and DGS
- **Utilities** and Power Distribution projects at Blue Cross / Blue Shield, FirstEnergy, GSA, Lockheed Martin, MEMA, USAF, WMATA
- **Mission Critical** Environment projects include Allegis Group, AIG, AT&T, Bank of America, Brazil State Department of Bahia, Capital One, Danske Bank, FDIC, FERC, IBM Corp., JP Morgan Chase, Marietta Data Center, Merrill Lynch & Co., Inc., Morgan Stanley & Co., NCR Corporation, Smithsonian **Institutes**, SSA, UPS, USACE, USAF, and WMATA.
- **Education and Research** projects include Bladensburg Library, Maryland Schools Assessments, National Agricultural Library, NIMA - Bethesda Research Center, Prince George's County Public Schools, and Plum Island Animal Disease Center.
- **Healthcare** projects at DHHS, CMS Medicare, and Medicaid Services, Montefiore Hospital, NIH, and the VA (Veterans Administration)
- **Multi-Purpose Facilities**, Retail, Commercial, Residential, Parking Facilities, EV Charging Stations

CERTIFICATIONS & REGISTRATIONS

- **CAGE Code:** 1TG39
- **SBA:** SDB Self-Certified Small Disadvantaged Business
- **MDoT:** MBE/DBE/SBE, Maryland Department of Transportation
- **MD DGS:** SBR Maryland Department of General Services Small Business Reserve Program
- **SWaM:** SBE, Virginia Small Business Enterprise
- **New York DOT:** DBE
- **Prince Georges County, MD,** County Based Small Business: CBSB & MBE
- **MWAA:** DBE & LDBE Metropolitan Washington Airport Authority Local Disadvantaged Business Enterprise
- **DCUCP:** DBE & SBE, **MWUCP** Metropolitan Washington Unified Certification Program – **DDOT** Washington DC Department of Transportation
- **WSSC:** SLBE & MBE



ANCILLARY ENGINEERING SERVICES INCLUDING STAFF AUGMENTATION

CSI Engineering (CSIE) provides **Ancillary Engineering Services** and full-time Staff Augmentation for highly qualified Engineering, Project Support Professionals, Inspectors, Communications, CAD, and Administrative personnel.

CSIE utilizes the latest recruitment, intake, search, and screening processes. CSIE carefully matches our professionals with your requirements. CSIE distinguishes those high-quality professionals from those with average skills sets to ensure our professionals exceed your expectations. CSIE staff provides the highest level of integrity and professionalism to each opportunity, client, and project.

CONSULTING SERVICES FOR COMPLEX MISSION CRITICAL ENVIRONMENTS

CSIE offers a wide range of **Technical Consulting Services** for your mission-critical environments. Mission-critical environments are more than just data centers. They are found in all types of facilities. Many of which include control rooms, hospitals, labs, schools and education facilities, utilities, museums, transportation systems, and call centers.

- CSIE maximizes your critical infrastructure portfolios through discovery, strategy, remediation, hardening, and possible relocation of mission-critical assets. Our professionals can lead you through every step in the process, quickly and efficiently.
- Our approach to efficiency includes a plan with goals and a method to achieve them. Aware of the law of diminishing returns we consider first the high-value actions by consolidation, and virtualization while considering growth, reviewing air management, and temperature settings. Then implementing justified capital improvements.
- Electrical efficiencies are focused on equipment needs, lighting, power conditioning, and redundancy. Backup power and Microgrids can provide power when off the grid and an additional revenue stream while on the grid. Mechanical efficiencies can be improved by managing airflow, heat dissipation, thermal storage, and cooling. Other environmental efficiencies can be picked up using solar, grey/low water use solutions, and building structure efficiencies.

WHY CSIE?

- Professional Engineers registered in numerous states
- Comprehensive spectrum of capabilities in Engineering Design, Staff Augmentation, and Consulting for Mission Critical Operations
- Excellent track record and a long list of satisfied Federal, State, Local and Commercial clients for over 34 years
- More than thirty years of experience serving transit, educational, labs, information, and municipal environments
- Proven success on projects over multiple sites, multiple phases, and multiple years
- Comprehensive verification, testing, and delivery systems to ensure reliability
- Value Engineering is taken into consideration every step of the way
- Designed the world's first Tier IV data center in Alpharetta, Georgia among other marquee data centers
- Small Minority Owned Disadvantaged Business, recognized by many local, regional, and federal agencies to help fulfill contract requirements and goals

Your clients, be they patients in a hospital, students in a school, passengers on a transit system, soldiers or law enforcement personnel in the field, or companies counting on data along with billions of online transactions, can be assured that your infrastructure is resilient!

NAICS CODES

- 541330** - Engineering Services (Primary)
- 541310** - Architectural Services
- 541340** - Drafting Services
- 541350** - Building Inspection Services
- 541690** - Other Scientific and Technical Consulting Services
- 541990** - All Other Professional, Scientific, and Technical Services
- 236210** - Industrial Building Construction
- 236220** - Commercial & Industrial Building Construction

CLIENTS INDUSTRIES

Transportation
Utilities & Power Distribution
Water and Wastewater
Healthcare
Education
Science, Technology, Research & Development
Mission Critical Operations
Housing

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MEMBERSHIPS & AFFILIATIONS

