



Representative Clients

CSI Engineering (CSIE) is a professionally managed **Engineering Design** firm serving the Mid-Atlantic region with numerous small and minority-owned certifications. Our firm has core capabilities in **Mechanical, Electrical, and Plumbing (MEP)** 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.

CSIE has a robust Ancillary Engineering Services, including engineering and construction Staff Augmentation. CSIE also provides Consulting Services for Complex Mission-Critical Environments. CSIE brings over 38 years of experience in design, consulting, and staffing solutions to a wide range of domestic and international clientele.

Mass Transportation WMATA-Washington Metropolitan Area Transit Authority, MTA-Maryland Transit Authority, MAA- Maryland Aviation Administration, MWAA-Metropolitan Washington Airport Authority, and MD DGS-Dept. of General Services
Utilities and Power Distribution Blue Cross / Blue Shield, FirstEnergy, GSA, Lockheed Martin, MDEM-Maryland Dept. of Emergency Management, USAF, WMATA
Mission Critical Environment Allegis Group, AIG, AT&T, Bank of America, British Telecom, Brazil State Department of Bahia, Capital One, Danske Bank, FDIC, FERC-Federal Energy Regulatory Commission, IBM Corp., JP Morgan Chase, Marietta Data Center, Merrill Lynch & Co., Inc., Morgan Stanley & Co., NCR Corporation, Smithsonian Institutes, SSA, UPS-United Parcel Service, USACE, USAF, Ven America, and WMATA.
Education and Research Bladensburg Library, Denton Library, Maryland Schools Assessments, National Agricultural Library, NIH-National Institutes of Health, NIMA - Bethesda Research Center, Prince George's County Public Schools, and Plum Island Animal Disease Center.
Healthcare DHHS-Dept. of Health and Human Services, CMS Medicare and Medicaid Services, Montefiore Hospital, NIH, and the VA-Veterans Administration

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's 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
- Mechanical systems including Air handling systems and distribution ductwork, chilled water plants and distribution piping, Boilers, and Building Automation systems
- Plumbing systems including, building domestic hot and cold-water services, including booster pumping and filtration utility coordination, sanitary and vent systems, building storm water systems, and natural gas building distribution 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

Certs & Regs

CAGE Code: 1TG39
MDOT: MBE/SBE, Maryland Department of Transportation
MD DGS: CSB/SBR Maryland Department of General Services Small Business Reserve Program
SWaM: SBE, Virginia Small Business Enterprise
Prince Georges County, MD: County Based Small Business CBSB & MBE
MWAA: LSBE Metropolitan Washington Airport Authority Local Small Business Enterprise
DCUCP: SBE Washington DC Unified Certification Program
MWUCP: SBE Metropolitan Washington Unified Certification Program
DDOT DC: SBE Washington DC Department of Transportation
WSSC: SLBE & MBE The Washington Sanitary Sewer Commission
New York DOT: DBE New York Department of Transportation
PAUCP SEPTA: DBE Southeastern Pennsylvania Transportation Authority

14205 Park Center Drive, Suite 203, Laurel, Maryland 20707
corporate@csie.com, 301.210.9090, www.csie.com



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 skill sets to ensure our professionals exceed your expectations. CSIE staff provide the highest level of integrity and professionalism to each opportunity, client, and project.

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 and Industrial Building Construction

Mission-Critical Consulting

CSIE provides comprehensive technical consulting services for mission-critical environments. These environments extend beyond traditional data centers and include facilities such as control rooms, healthcare institutions, laboratories, educational campuses, utilities, museums, transportation systems, and call centers.

Lifecycle Support:

- CSIE strengthens critical infrastructure portfolios through a full lifecycle approach, including assessment, strategic planning, remediation, system hardening, and, when required, relocation of mission-critical assets. Our team delivers efficient, end-to-end support to ensure continuity and performance.

Performance Optimization:

- Our approach prioritizes measurable efficiency improvements through structured planning and defined objectives. Recognizing the law of diminishing returns, we focus first on high-impact actions such as system consolidation and virtualization, while also addressing capacity planning, airflow management, and temperature optimization. Capital improvements are implemented based on demonstrated value and return on investment.

Integrated Engineering Efficiencies:

- Electrical Systems:** Optimization of power distribution, lighting, power quality, redundancy, and backup systems. Microgrid solutions enhance resilience, enable off-grid operation, and may provide on-grid revenue opportunities.
- Mechanical Systems:** Improvements in airflow management, heat transfer, thermal storage, and cooling system performance.
- Environmental Design:** Sustainable solutions including solar integration, water conservation (e.g., greywater systems), and building envelope enhancements to improve overall efficiency.

Contacts

14205 Park Center Drive, Suite 203
 Laurel, Maryland 20707
 301.210.9090

www.csie.com



Ari Ghosal

President

Direct: 202.262.1860

aghosal@csie.com

Bernie Leipold

Business Development Manager

Direct: 443.605.3296

bernie@csie.com

Associations



Data Center World
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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
- Proven success on projects over multiple sites, multiple phases, and multiple years
- Comprehensive verification, testing, and delivery systems to ensure reliability
- Value Engineering is considered at every step of the process
- 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