# TechSite

Your peer-approved
mission-critical facility experts

# Designing, Building, Operating and Maintaining Mission-Critical Facilities

## *Who we are:*

- Since 1989, the team at TechSite has worked in Data Centers and other Mission-Critical facilities offering Consulting Engineering, Construction Management and Maintenance services.

- We've been there. Our team has experienced the diverse challenges that exist in designing, building and operating mission-critical facilities. We have a strong appreciation of the facility's importance to our customers and their business.

- We listen. Our services are carefully tailored to our customer's requirements. Every project is planned and executed to meet those requirements, regardless of project size.

## *Our Purpose:*

TechSite keeps our client's mission-critical facilities running. Our purpose is to expertly plan, design, build, test, operate and maintain mission-critical space to maximize reliability, ROI and efficiency while providing the industry's highest level of customer satisfaction.



## *What our customers say:*

- "TechSite acts like an extension of my own team. They communicated well and ensured everything went right the first time."

- "TechSite doesn't give you a lot of fluff in their recommendations. They recommend what they would do if it were their facility."

- "TechSite has always treated us well, then have a great track record and they know what they are doing. You would recommend them too."

# SERVICE OFFERINGS

**Site Assessment and Recommendations** **Tech**Site evaluates existing mission critical facilities and infrastructure systems for our clients. The assessment reveals single points of failure and other weaknesses. **Tech**Site develops mitigation options and can render an opinion regarding the Tier rating of the facility.

**Conceptual Design and Budgeting** The first step in a construction project, whether it be a new build, a major infrastructure modification or an expansion of a facility, should be a Conceptual Design and Budgeting analysis. This analysis serves as a feasibility study and evaluates the scope desired. The project options and probable costs can be explored and documented, allowing the owner to develop program requirements prior to full design.

**Engineering and Construction Documents** **Tech**Site employs licensed Professional Engineers (PEs). The engineering staff creates construction documents that are required to communicate the client's basis of design to the skilled tradesmen who will construct the facility. The construction drawings and specifications are also used to obtain building permits.

**Construction Administration** **Tech**Site serves as the owner's technical representative during the construction process. The engineers provide RFI responses, change order managements, quality control, and as-built documentation.

**Commissioning** Commissioning is a vital part of ensuring that the facility will operate as designed. Commissioning is also a prerequisite for obtaining LEED certification. **Tech**Site writes and conducts commissioning scripts to be implemented at the end of a construction project. **Tech**Site also offers third party commissioning services for data center construction projects.

**Site Selection** **Tech**Site assists our clients with a risk assessment for proposed data center locations. Items that are evaluated include natural and man-made hazards, security, environmental, local codes, and infrastructure availability. Where needed, mitigation strategies are suggested. When multiple sites are evaluated, comparative scores are developed to assist the owner's decision-making process.

**Green Studies** Data centers consume up to 2% of the electrical power sold in the US as of 2010. This number is expected to continue to increase. **Tech**Site provides analysis of energy saving opportunities for our clients with calculated ROI or Return On Investment.

**Construction Management** – **Tech**Site serves in the role of the general contractor for many of our clients. A **Tech**Site construction manager is on-site to coordinate the skilled trades and vendors. The construction manager conducts weekly meetings and communicates status to the owner. **Tech**Site provides a single source of responsibility for the client. Combining the Conceptual Design, Engineering, and Construction Management into a single "Turnkey" package provides the fastest delivery and the most control for the owner.

**Maintenance Management** Data Centers must be periodically tested and maintained in order to ensure a high level of reliability. **Tech**Site schedules and coordinates the service providers to ensure that the maintenance is performed according to best practices and that the work is documented. An open issues log is used to make sure that all problems are solved and closed. A **Tech**Site manager is on-site during the process.

**Facility Management** **Tech**Site employees work on a daily basis at our client's data center sites. The **Tech**Site specialist is "on call" 24 hours a day to respond to emergencies. In addition the **Tech**Site person assists with server additions, capacity planning, whip additions, and the day to day routine of operating a facility.

**Operations Documentation** **Tech**Site can produce facility operations and emergency response manuals providing data center operators with a list of the infrastructure equipment and related functions and procedures. When facility infrastructure documentation is lacking, **Tech**Site also offers assessment services allowing us to recreate critical documentation such as electrical one lines and mechanical schematics.

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