

EMCOR CONSTRUCTION SERVICES

Think. Build. Sustain.

BUILD
POWER.
SERVICE.
PROTECT.

Today's buildings are more tied to occupants' use than ever. And that use is ever more complex over the life of a building. EMCOR's construction experts have knowledge in mechanical, electrical, plumbing, and fire protection, so we can collaborate with your team to deliver exactly what your client needs—a building that lives up to unique, rigorous expectations.

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EMCOR Construction Services

Building excellence into assets. *This* is new construction.

Intelligent, integrated buildings are more requirement than option. Fast track schedules are the norm on new projects and renovations. And project team members must collaborate to get their jobs done. EMCOR Construction Services (ECS) delivers what clients need in today's demanding construction environments: We're experts in collaborating with project team members to integrate real components into design details. The information is used by everyone to ensure constructability, maintainability, and sustainability.

EMCOR has the optimal blend of technical expertise and delivery services—and Fortune 500® financial stability—to keep pace with a changing industry. We exceed rigorous construction standards with innovation and flexibility.

A Customer Case Study

Building on collaboration.



When Black Fan Research Center needed a new 18-story, 1.1 million sq. ft. life sciences building, the project faced two challenges: prevent disruption of services in the rest of the complex, and deliver on a fast track schedule in a congested area. Using the Building Information Modeling (BIM) approach, EMCOR's 3D/CAD experts addressed both. They tried several layouts to find the best. Eighty potential system clashes were reduced to zero, and 8.5 miles of piping were fabricated off site with precision. Plus custom-built equipment was delivered and maneuvered into place on time. Without 3D capability, potential problems would not have been identified until crews were actually performing the work.

Our Solutions.

On today's fast-track projects, information flow is right on the critical path along with construction activity. Our experts collaborate with clients to ensure flexible, information-based solutions. We apply the best possible methods, including prefabrication and modularization.

We use approaches that move work away from the construction site to more controlled environments, increasing quality and output.

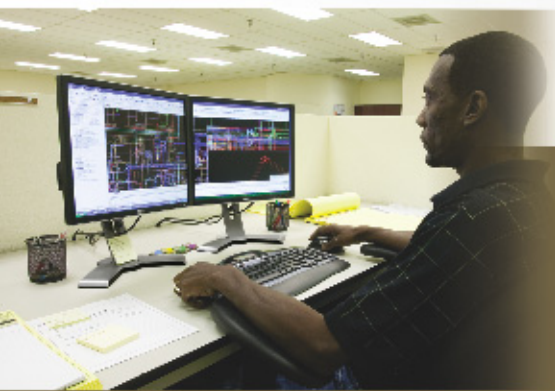
And with our blend of information and experience, we can help compensate for short lead times and labor supply.

Continuous Collaboration

Our experts bring knowledge and technical savvy to every project. From concept and design, to the job site, and anywhere in between, collaboration is key. When problems are identified early and conflicts are resolved as a team, everything is more efficient. EMCOR experts use an advanced process that employs Building Information Modeling (BIM), which actually tests ideas while they are still ideas. An electronic BIM file enables everyone on the team to see the end product, fly through the building in 3-D, and spot interferences before construction. Alternatives can be explored by everyone in real time, leading to the best designs. In addition, bills of material can be established and embedded in the file. Plus, after a project is completed, data embedded in the files makes managing the facility more efficient for maintenance and engineering staffs.

Electrical

We provide expert advice on the design of systems to ensure constructability and maintainability, and we provide expert teams to install AC/DC power systems; alternative power solutions; intelligent highway systems; building plant and lighting; cable tray installations; explosion-proof systems; supervisory control and data acquisition (SCADA) systems; and more.



A Customer Case Study

Data bank.

When a \$1 trillion global financial institution needed a secure central data center built, serviced, and protected, there was only one choice. EMCOR, drawing on its knowledge network of design/build, electrical and mechanical, fire protection, and facilities services experts, completed and now manages the data center, which involves twin buildings with parallel systems and fail-safe redundancies. The massive project also includes 3,600 fire sprinklers, 14 pre-action systems, and two 1,500 gallon per minute pumps to protect in the event of fire—plus back-up power. In this data-driven, fast-track world, we design and build like there's no tomorrow. So that there will be.

Mechanical and Plumbing

We provide expert advice on the design of systems to ensure constructability and maintainability, and we provide expert teams to install a full range of HVAC, plumbing, and piping, as well as process gas and fluid equipment and systems including boilers; chillers; cogeneration; controls; unitary heat pumps; rooftop units; energy recovery systems; and more.

Life Safety Solutions with Renowned Fire-protection Expertise

EMCOR assists in the proper design of life safety systems, and we install everything clients need including fire detection and suppression equipment, intruder alarms, access control, and video surveillance. Our fire-protection experts test, repair, and upgrade equipment to make sure your business can survive a disaster.

Value-added Procurement

Without size and scale, we have unmatched purchasing power to identify qualified providers, coordinate bids, and handle project management for the highest quality, most cost-effective solutions.

Fabrication

We fabricate components in controlled environments. Larger pieces can be prefabricated in parallel to the critical path, delivered, and then rigged and commissioned on time. The result is higher quality installation of energy-efficient electrical components, specialized piping, and sheet metal.

Project Management

Clients require technically savvy teams and collaborative approaches to complete today's system rich projects. Our project management experience means the final product not only meets spec, but is a valuable asset to end users for the long-term. And with Building Information Modeling, you get constructability, maintainability, and sustainability on highly complex projects, as well as smaller projects.

Systems Integration

We can integrate all building systems, including back-up power, to ensure optimum uptime, security, and performance.

Commissioning/ Recommissioning

The success of every project starts with a careful analysis of the end user's long-term objectives—well before systems are designed or equipment is selected. Our experts design and build with long-term goals in mind, making project commissioning and recommissioning extremely efficient.

Renovations and Retrofits

EMCOR project managers can oversee minor as well as major upgrades to individual systems as well as entire facilities to ensure that facilities keep pace with changing use and productivity demands.

Mobile Services Solutions

The right maintenance program provides the vital link between a successful construction project and long-term sustainability. With a national footprint and expert, wirelessly connected field technicians, we support clients' peak performance with essential maintenance solutions.



Our Team for Building Excellence.

Speed-to-market and the need to optimize return on investment for owners are inspiring new fields of collaboration in construction.

EMCOR is leading the way in creating these new strategic alliances, with Building Information Modeling (BIM) design/build services, value-driven procurement, and LEED® certified specialists available in every market. Our team provides sustainable solutions for our clients to build excellence into assets.

We Keep Building On Safety, Quality, and Productivity

Our integrated approach to safety, quality, and productivity is a vital part of our collaborative approach to construction. The best productivity gains depend on a set-up process that emphasizes safety and minimizes risk. This approach, in turn, means the highest quality for clients. And we're proud to say that it has also led to a nationally recognized safety record: Since 2002, with this integrated approach, EMCOR's "Be There for Life" zero accident program has led to a 45 percent reduction in our total recordable incident rate (TRIR).



A Customer Case Study

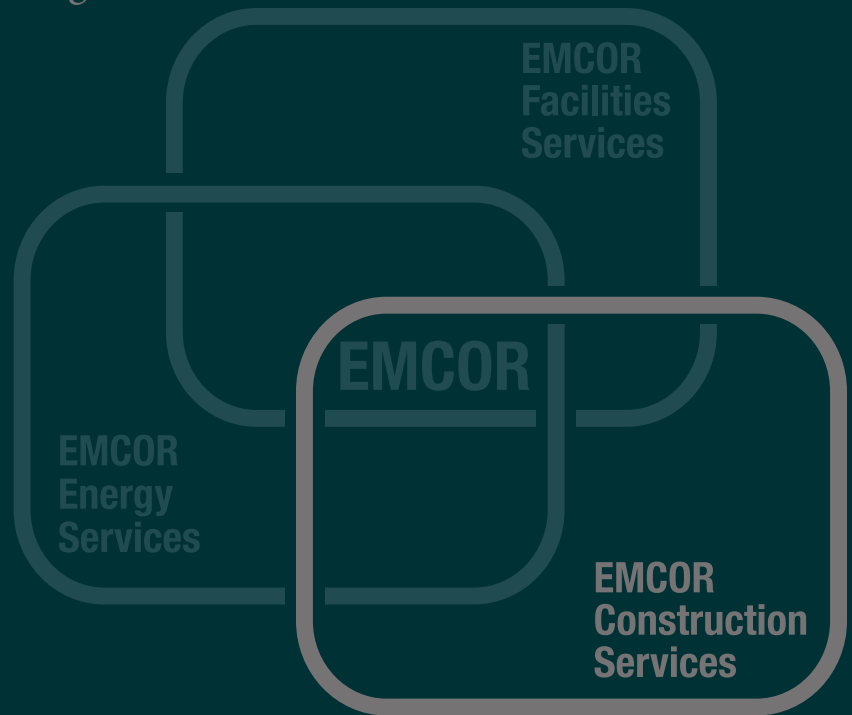
Green to gold.

When Chicago's mayor decreed that all new public buildings must be LEED® certified, it was another big step for a city that has leaned toward green for years. The 1.4 million sq. ft., 51-story office building at 111 South Wacker set the pace with the world's first Gold LEED-CS certification, and EMCOR, naturally, contributed to the achievement. Using our design/build expertise, we provided energy efficient lighting and telecommunications and security raceways, keeping costs down and quality up. The client met the LEED directive and provided a great start for a city that so aspires to green it dyes its river each year.



BUILD. POWER. SERVICE. PROTECT.

That's the EMCOR Advantage.



EMCOR collaborates with clients for solutions that optimize ROI of construction dollars.

Services

- > Continuous collaboration based on Building Information Modeling (BIM)
- > Sustainable Mechanical, Electrical, and Plumbing (MEP) Solutions
- > Life Safety Solutions
- > Fire Protection Solutions
- > Mobile Service Solutions
- > Value-added Procurement
- > Fabrication
- > Project management
- > Systems integration
- > Commissioning/recommissioning
- > Renovations and retrofits

Benefits

- > Constructability, maintainability, and sustainability
- > Project safety, quality, and productivity
- > Most efficient use of skilled and supervisory talent
- > Increased speed of delivery (time saved)
- > Improved coordination (fewer errors)
- > Control costs
- > Ensure timely handover
- > Integrate systems for highest performance
- > Optimize asset life
- > Enhanced tenant satisfaction
- > Boost resale value



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For many of the world's most successful organizations, EMCOR turns competitive pressure into a competitive edge. We build, power, service, and protect the sophisticated facilities and systems that help our clients increase productivity and optimize their businesses.

For more information about EMCOR Construction Services, or any of our other services, please contact us:

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