



## MISSION STATEMENT

*Every building has its own particular mission. From the simplest form of shelter, to the most complex data or industrial facility; each has a specific purpose and associated goals. Our mission is to guide our clients to infrastructure systems that complement the goals and purpose of each building. Our task is to integrate the mechanical and electrical systems not only with each other, but also with the overriding needs and objectives of the facility, owner, operating staff, and inhabitants. We design and engineer systems that take the best approach to challenges that range from simple to complex. We disregard preconceived notions about how things need to be done, and through innovative ideas based on fundamental physics, common sense, and the latest technology, we furnish the optimum solution. We embrace each problem as an opportunity to achieve a solution that is simpler, safer, more efficient and more effective.*



*Designing any one system is fairly simple. Integrating a myriad of systems into a cohesive approach that best suits the purpose of each building is the hallmark of M&E ENGINEERS, INC.*



## DISCIPLINES

M&E provides a full range of Mechanical and Electrical engineering services. Our capabilities include these areas of expertise:

### HEATING, VENTILATING AND AIR CONDITIONING

- Steam and Hot Water Boiler Plants
- Chillers and Cooling Towers
- Fuel Systems
- Air Handlers and Fans
- Fume Hood Systems
- Clean Rooms
- Energy Management Systems
- Refrigeration Systems
- Geothermal System
- VAV Systems

### ELECTRICAL

- Power distribution
- Lighting
- Emergency Generators
- Uninterruptible Power - Systems
- Fire Detection and Alarm
- Security and Surveillance
- Voice and Data

### FIRE PROTECTION

- Very Early Smoke Detection Systems
- Wet pipe & Dry pipe sprinkler systems
- Pre Action systems
- Fire Pumps
- FM-200 (Halon replacements)
- Carbon dioxide and clean agents
- Range hood suppression

### PLUMBING

- Water distribution systems
- Sanitary and Storm sewer
- Pressure Booster systems
- Compressed air
- Vacuum systems
- Pumps stations
- Laboratory gases
- Pure water systems
- Acid waste neutralizers
- Commercial kitchens
- Grease and oil separators



# Integrated Engineering Solutions

## DISTINCTIVE

There is an old axiom in the architectural and engineering community – “Get the job, get the job, get the job.” There is unfortunately in our profession a notion that one should never turn down work, and that no matter what the situation is, a design firm can somehow make any project successful. We take a different approach. Our intent is to build relationships with our clients, by gaining their trust. This can only be earned by being honest and up-front with them. We have declined numerous commissions when we have not had the proper resources available to meet the schedule and maintain the design quality to our standards.

The traditional role for engineering firms is to listen to the Owner and meet their requirements. We will not do that. We will challenge your presumptions, and question the logic behind your decisions. Too many projects are designed on the basis of “that’s how we have always done it.” We are not just your engineers, we are your consultants. We want to be certain that you know all of your options, and understand all the implications of your decisions. We will listen, and ask questions until we understand your needs and goals. Then we will boil down the technical and economic issues, and review them with you until you can comfortably make informed decisions. We want you to invest wisely in your infrastructure, to achieve better efficiencies and reliability.



## GREEN DESIGN

*The goal of green design is to create high-performance buildings. Often called "sustainable design", it is a comprehensive and integrated approach to the art of designing and operating buildings. It ensures conservation of energy, water and natural resources. It promotes a healthier indoor environment, which improves the quality of life. If we are not part of the solution, we are part of the problem.*

## STEWARDSHIP

*We have an obligation to design and engineer our projects responsibly. We take the environmental and energy impact of our work very seriously and strive to be leaders in the area of sustainable design. Both new and existing buildings can be certified by the U.S. Green Building Council if they meet certain goals, and can be certified at Silver, Gold or Platinum levels if they exceed the basic requirements. We are members of the USGBC LEED Green Building Program and are Energy Star Partners. Beyond this, we are experts in other energy-related programs and areas, such as Smart Start (with incentive rebates) and Labs 21.*



## ENERGY PROJECTS

*-Energy Star Certification, Verizon  
-Solar Energy System, Johanna Foods  
-NJ Smart Start Program, 540 Broad Street*

*-Greywater System, The Seeing Eye  
-Energy Efficient Program, Pine Ridge Housing  
-Team Energy, Various assignments for Verizon*



## QUALIFICATIONS

*-LEED Accredited Design Professionals  
-Energy Star Partners  
-Members of ICC, NFPA, NSPE  
-Members of the National Trust for Historic Preservation*



# Integrated Engineering Solutions

## DESIGN SERVICES

### PLANNING

- Research & Investigation
- Feasibility Studies
- Cost Estimates
- Code Analysis
- Master Planning
- Life Cycle Cost Analysis

### DESIGNS

- Existing Condition Surveys
- Construction Plans
- Specifications
- Contractor Procurement
- Bid Analysis

### CONSTRUCTION

- Shop Drawing Review
- Construction Administration
- Project Management
- Final Inspections



## SPECIAL SERVICES

### PLANNING

- Ergonomic Design
- Plant Layout
- Equipment Space Planning
- Historic Structures Report
- LEED Certification

### MANAGEMENT

- Program Management
- Corporate Standards
- Program Planning and Coordination
- Reliability Analysis

### ENERGY

- Geothermal Systems
- Power Quality Analysis
- Energy Rebate Applications
- Investment Grade Energy Studies
- Distributed Generation

### CONSTRUCTION

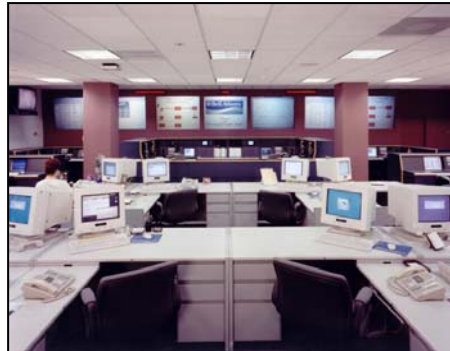
- Critical Path Method (CPM) Scheduling
- Value Engineering
- Peer Review
- System Commissioning

## SPECIALISTS

We are not one of those firms that claim they specialize in all types of buildings. We actually do specialize in the following areas:

### TELECOMMUNICATIONS & MISSION CRITICAL

- Call Centers
- Central Office Facilities (COs)
- Data Centers
- ISP Co-location
- Microwave/Radio Tower Facilities
- Network Operation Centers (NOC)
- Point of Presence (POP) Facilities
- Wireless/Cellular Site



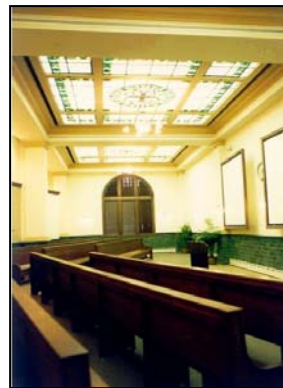
### PHARMACEUTICAL & MANUFACTURING

- Clean Rooms
- Distribution Centers
- Packaging Lines
- Refrigerated Storage
- Research Labs
- Warehouses



### EDUCATIONAL & HISTORIC

- Adaptive Reuse
- Food Service
- Libraries
- Museums
- Preservation
- Research & Testing Labs
- Training Facilities



# Integrated Engineering Solutions

**Founded in 1984, M&E Engineers has established a reputation for the highest levels of quality, innovation and ethics. The most noteworthy relationship is one that we have built with Verizon. M&E has been privileged to design literally hundreds of projects over close to 20 years for New Jersey Bell Telephone and its successors. Beyond traditional design services, we were chosen to author the Verizon HVAC design standards and manage the WSA Alliance of Design Professionals for the entire Mid-Atlantic area. We are proud to be a strategic partner with Verizon, and strive to be much more than just a service provider with all of our clients.**

**Let us integrate a solution for you.**



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