

# Health Care Engineering



## Long term relationships

GEI has been the MEP engineering firm of record for Middlesex Hospital for over 15 years. During that period we have been responsible for over \$100,000,000 of new construction and renovations, helping to modernize a 50+ year old facility that has now been recognized as a Top 100 hospital in the United States. Some of our design efforts in support of the Hospital's improvements include major expansions to house the Emergency Department, Critical Care, Clinical Laboratory, Outpatient Services, and a Cardiac Catheterization lab, complete reconfiguration of the existing 10-room Operating Suite, major upgrades and expansion of the emergency power facility, complete replacement of multiple central chiller plants, expansion of the facility data center and major improvements to its electrical distribution, and complete renovations of multiple patient care floors throughout the facility.

## Health Care Engineering Expertise

GEI has a wealth of experience in health care facilities engineering, ranging from simple medical offices to complex state-of-the-art clinical suites. We specialize in complex renovations of existing facilities, and we have the knowledge required to successfully design and implement renovation projects around fully operational clinical programs.

## Client Driven

GEI understands that our health care clients' primary focus is patient treatment. This knowledge combined with our understanding of new emerging technologies, allows us to provide our clients with energy efficient, flexible, and innovative solutions to meet the healthcare needs of today and tomorrow.

## Engineering Services/Design

- Field Surveys
- Feasibility Studies
- Code Compliance Studies
- Energy Conservation Studies
- Electrical System Studies
- Arc Flash Analysis
- Circuit Breaker Coordination
- HVAC System Studies
- Master Planning
- Construction Documents
- Construction Administration
- Electrical Distribution
- Emergency/Standby Power
- Uninterruptible Power Systems
- Interior & Exterior Lighting
- Security Systems
- Fire Alarm Systems
- HVAC Systems
- Chiller & Boiler Systems
- Energy Management Systems
- Combined Heat & Power
- Plumbing Systems

## Engineering Excellence

- Surgical Suites
- Pre-Operative Care Support
- Post-Operative Care Support
- Outpatient Surgery Centers
- Emergency & Trauma Centers
- Radiology Centers
- Women & Children's Centers
- Geriatric Centers
- Hospice & Palliative Care
- In-Patient Psychiatric Units
- Rehabilitation Centers
- Clinical Laboratories
- Pathology Laboratories
- Pharmacy Design
- Physician Office Suites
- Clean Room Design
- Data Centers
- Generators

