



Designing Solutions for Community Health



OUR VISION

Healthcare facilities are constantly changing to meet industry trends, new technology, and changing demographics. M/E Engineering, P.C. has built long term relationships with many hospitals and healthcare systems to assist in keeping up with these changes and demanding infrastructure requirements providing; long term planning, feasibility studies, energy studies, construction documents, construction administration, design-build, and fast track construction.

We are a client, employee, and community focused firm committed to life-long relationships, continually striving to be the most highly regarded firm developing solutions for the built environment.

Facilities Served

Hospitals
Skilled Nursing Facilities
Assisted Living
Behavioral & Mental Health
Outpatient Surgery Centers
Medical Laboratories

We Listen... We Understand... We Deliver...

Cover Photo / Project Spotlight:

Orthopaedics and Physical Performance Center

University of Rochester



The new 330,000 SF, \$200M center is a four-story clinic building with exam, imaging, conference, and office spaces. Existing space will be renovated for cutting edge healthcare and patient experience. We designed the centralized heating/cooling plants, emergency power, UPS power, bulk oxygen storage, room pressurization control, fire pump, and all the associated distribution systems.



HEALTHCARE FACILITY DESIGN

Our Team of Professionals are here to help.



Anthony V. Thomas P.E., LEED AP Vice President



Michael K. Sullivan P.E. **Principal**



Brian L. Danker P.E., LEED AP BD+C **Principal**



Garrett D. Donals P.E. **Partner**



Richard F. Gostling LEED AP **Associate**



Lawrence H. Coon **Associate**



Eric K. Miller P.E. **Project Manager**

For additional information, please contact:

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Rochester Office Brian L. Danker bldanker@meengineering.com 585.288.5590 x1356

Capital District Office Michael K. Sullivan mksullivan@meengineering.com 518.533.2171 x1436

Our SERVICES

At M/E Engineering, we design systems and environments that improve the quality of life for the communities we live in.

Mechanical

Electrical

Plumbing

Fire Protection

Emergency Power Systems

Central Chiller / Heating Plants

CFD Modeling

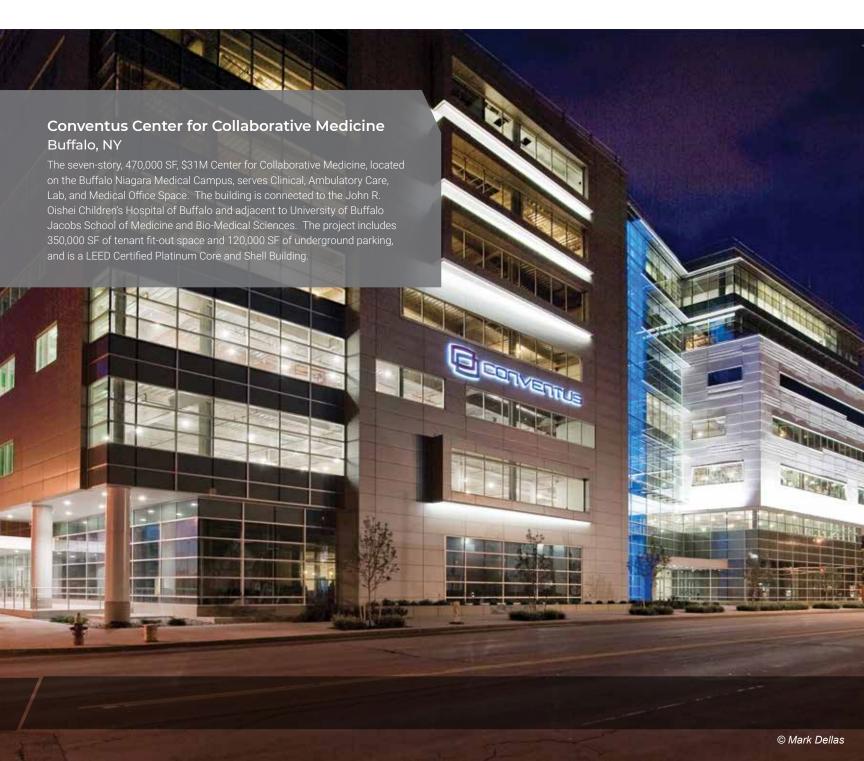
Commissioning

Specialty Lighting

Energy / Sustainability Services

Emergency Preparedness

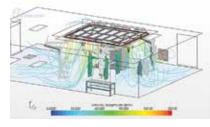
Code Review

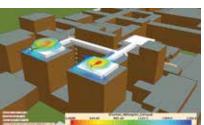




Computational Fluid Dynamics (CFD) Modeling

The use of CFD Modeling not only allows our staff to analyze specific issues, it also provides insight and added value to our design process by anticipating and reacting to the complex environment and enables our engineers to design a successful project. We are actively involved in research to help develop design tools that will aid in the initial layout of the facility and in the operation of these spaces both from an energy and infection control standpoint.





CFD Applications

Operating Room Air Distribution and Contaminant Control
Pharmacy Clean Room Ventilation Effectiveness
Isolation Room / Lab Fume Exhaust Discharge
Emergency Generator / Boiler Exhaust Fumes
Building Wind Wake Analysis
Outside Air Intake Contamination
Cooling Tower Water Vapor Discharge
Helipad Impact On Outside Air Intake

For additional information regarding **CFD Modeling** please contact:

Scott D. Reynolds, P.E. Computer Aided Engineering Solutions 585.288.5590



Commissioning

We provide commissioning and retro-commissioning services for both new construction and renovation projects. Our extensive experience ranges from 10,000 SF medical office buildings to 300,000 SF research facilities and acute care hospitals.

Initial Design Review

Plan Development

Checklists & Functional Test Procedure Completion

On-Site Performance Testing

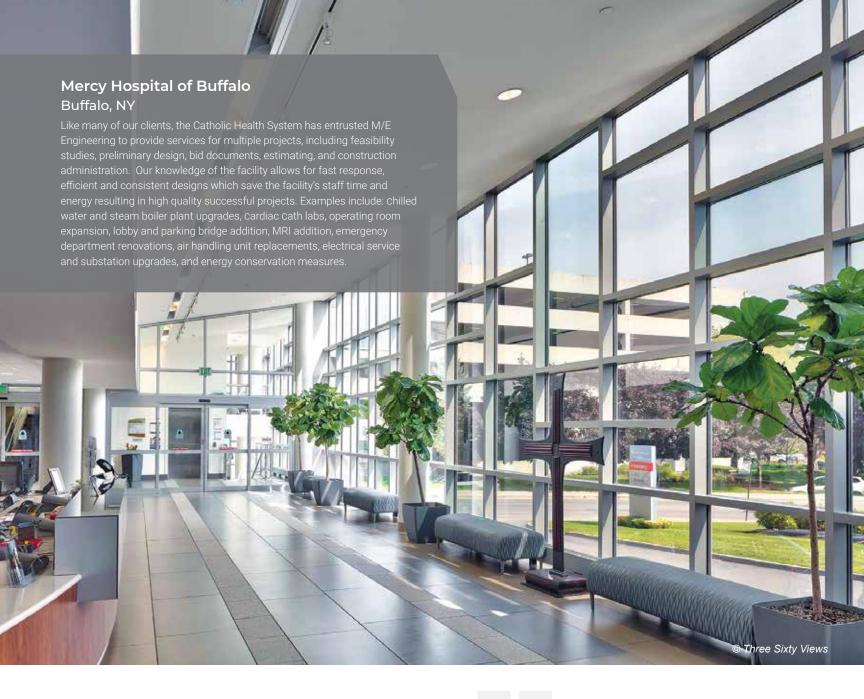
Department of Health Interface

Specialty Lighting

Our lighting & electrical services group provides specialty lighting design uniquely related to healthcare settings to optimize overall patient experience.

Circadian Rhythm Lighting
Daylight Optimization Control
Germicidal Disinfecting Lighting
UVC Disinfecting





Energy / Sustainability Services

Building Energy Audits & Conservation Assessments

Integrated Whole Building Energy Modeling

Electrification Solutions

Renewable Energy Studies & Design

USGBC LEED Administration & Design Services

Net Zero & Net Zero Ready Confirmation

Incentive Program Triage & Assistance

Energy & Carbon Neutrality Master Planning

Our professional engineers act as the interface between buildings and people to provide a comfortable, functional, sustainable environment.

Melanie Stachowiak, Partner M/E Engineering P.C.

For additional information regarding our **Sustainability Group** please contact:

Melanie G. Stachowiak, P.E., LEED AP BD+C, CMVP Partner mgstachowiak@meengineering.com 716.845.5092 x1207





Emergency Preparedness Planning

ARE YOU READY?

Our skilled team of engineers help plan and design each facility's mechanical and electrical systems to satisfy the client's Emergency Preparedness Plan in accordance to the clinical and administrative goals for addressing the needs of patients under a variety of hazards and emergency circumstances.

Emergency Preparedness Planning Considerations include:

Resiliency

Redundancy

Reliability

Natural Disasters

Extreme Weather

Emerging Infectious Diseases

- Strategies for Minimizing Airborne Transmission
- Temporary Reconfiguration, Flexibility / Adaptability
- Re-Commissioning Restoration to Normal Operation
- Medical Gases Source and Distribution Capacity

The Planning Process

Major renovations or new construction should include an emergency preparedness planning process so the facility can properly plan for appropriate infrastructure design criteria.

1 Pre-Planning

2 Information Gathering

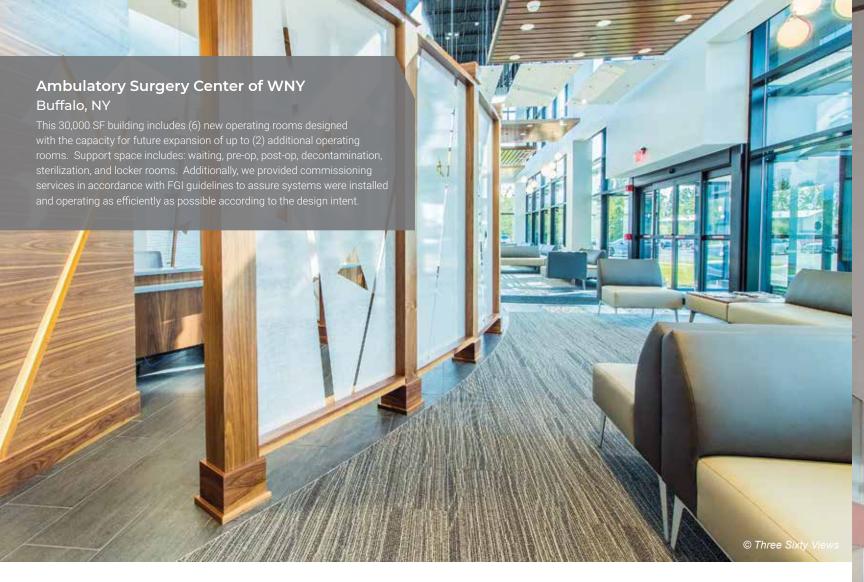
3 Strategic Analysis

Response Adaptability

5 Satisfy Goals

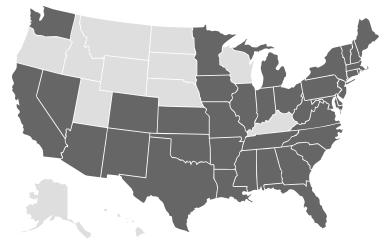
M/E Engineering is trying to anticipate future design standards and codes by continually utilizing good design practices. We're implementing indoor air management strategies aimed to reduce occupant exposure to infectious aerosols that include air dilution, airflow patterns, pressurization, temperature and humidity distribution/control, filtration, and ultraviolet germicidal irradiation (UVGI).

Rich Gostling, Associate M/E Engineering P.C.



Established & Trusted

For over thirty years, our healthcare clients have trusted M/E to handle their most challenging projects. That trust is built on our core values of Stewardship, Professionalism, and Design Excellence.



Licensed in 38 States



"From small studies to projects in excess of \$500M, M/E has always provided the highest level of service to our clients. When you recognize that you or your family will need these facilities at some point in the future, you do everything in your power to ensure the best possible outcome. You would expect nothing less from our healthcare providers, and you should expect nothing less from those that design their facilities."

John A. Dredger, President M/E Engineering P.C.





Rochester | Buffalo | Syracuse | Capital District

www.meengineering.com