James T. Miller, PE | LEED® BD+C | CSI-CDT

Vice President, Healthcare & SciTech Engineering

Background

Mr. Miller is a Senior Mechanical Engineer and Project Manager with over 25 years of Healthcare, Science & Technology, Academic and large Commercial building project experience. He leads interdisciplinary teams of engineers and designers to provide customized engineering solutions to the most complex and challenging projects. He enjoys getting to know clients and understanding their needs and expectations so appropriate design solutions can be implemented early during project conceptual design phases, but will not hesitate to propose unique and creative, out-of-the-box solutions to ensure client needs are met or exceeded.

Education

Master of Science, Architectural Engineering (MS, Building Energy Systems)
Bachelor of Science, Architectural Engineering (BAE, Environmental Option)
Pennsylvania State University, University Park, PA

Professional Licenses & Certifications

Professional Engineer licensed in New Jersey, Pennsylvania, Ohio

United States Green Building Council (USGBC), LEED® BD+C Accredited Professional
Construction Specifications Institute (CSI), Certified Construction Documents Technologist (CDT)

Affiliations

American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE)

Select Healthcare Project Experience

- **Hackensack Meridian Health, Hackensack University Medical Center 2nd Street Tower Addition and New Central Utility Plant**, *Hackensack, NJ*: New 500,000 sf addition including 24 OR surgical department, new Central Sterile Supply, 200 private in-patient rooms including ICU, med/surg and univeral rooms plus a new central plant building (chilled water, high pressure steam, new campus electric service, emergency power and future Combined Heat and Power plant).
- **Penn Presbyterian Medical Center, Emergency Department Renovation**, *Philadelphia, PA*: A phased renovation of the emergency department and a 1-story in-fill addition.
- **Robert Wood Johnson University Hospital, 3rd Floor Tower Building Renovation**, *New Brunswick, NJ*: Renovated the 11,200 sf, 3rd floor of the Tower Building. The former ICU and NICU suites were demolished and a new Obstetrics department was put in its place.
- **Virtua Health, Our Lady of Lourdes Medical Center, IT Infrastructure Replacement**, *Camden, NJ*: Phased replacement of entire IT and Technology Systems infrastructure in existing, fully operational hospital.
- **Virtua Health, Lourdes Medical Center of Burlington County, IT Infrastructure Replacement**, *Willingboro, NJ*: Phased replacement of entire IT and Technology Systems infrastructure in existing, fully operational hospital.
- **Virtua Health, Bergen-Passaic Eye Surgery Center, OR Expansion,** *Passaic, NJ*: Phased expansion of existing, fully operational ambulatory surgery center including two new ORs, new Sterile Processing Suite, renovated Prep and Recovery area, new Laser and Femto procedure rooms, reconstruction of staff locker room and new conference/break room.
- **Mount Sinai Medical Center, Imaging Suite Humidification,** *New York, NY:* Analysis and design was performed for properly humidifying an imaging suite. The existing system was not providing proper humidify levels to the space causing equipment imaging issues. New central and trim humidifiers were added to properly serve the space.
- **Cooper University Hospital, OR Dehumidification and Back-up Chillers**, *Camden, NJ*: Provide desiccant dehumidification system to ultra-dry outdoor air for humidity control in main surgery operating rooms. Provide new chillers as back-up for existing chillers serving main OR and ambulatory surgery center withing hospital.
- **AtlantiCare Regional Medical Center (City), Isolation Room Upgrades,** *Atlantic City, NJ*: Engineering study of pressurization control problems led to full engineering design for upgrade of existing Airborne Infection Isolation (AII) room central exhaust systems and room controls to compensate for room air leakage (with no anterooms) and achieve dynamic control of room pressurization according to current FGI requirements.