



MEDICAL SCIENCE BUILDING Scranton, PA

PROJECT TEAM

Owner	The Commonwealth Medical College
Architects	Highland Associates & HOK
Structural/M.E.P. Engineers	Highland Associates
Construction Management	Quandel Construction Group
Landscape Architecture	McLane Associates
Interior Architecture	Highland Associates & HOK

GENERAL INFO

Function	Medical College
Size	185,000 square feet
Height	93 feet, 5 Stories
Cost	\$120 Million
Construction Dates	May 2009 to Oct 2011
Delivery Method	Design-Bid-Build

ARCHITECTURE

The Commonwealth Medical College (TCMC), also known as The Medical Sciences Building (MSB), opened its doors on April 2011 to serve over 675 occupants. It has over 3 acres of prime space in the heart of Scranton, PA. TCMC has two wings, east and west, connected by a grand lobby where everyone gets together and socialize. The lobby is surrounded by a huge courtyard, both north and south side, which provides a very nice green view that the city cannot provide. The exterior facade of TCMC are glass, granite and limestone veneers. High performance glazing and honeycombed transom glazing, for integrated daylight control, are used all over the building. TCMC is a brand new state of the art building that provides the most luxurious feeling a building can have.



STRUCTURAL

The west wing rests on mat slab foundation while the east wing, and the link between them, rest on drilled caissons. The framing system of TCMC is primarily W-shape, ASTM A992 steel. Lateral forces are resisted by moment connections. All floors are concrete slab on a composite steel deck. The roof however, is a roof deck with no concrete.

MEP SYSTEMS

Air Handling Units: Different sizes, totaling over 200,000 cfm, with heat recovery system
 Lab Exhaust System: Five 20,000 cfm, Strobic fans with pre-filter, heat recovery coils
 Refrigeration: Four 300 ton, McQuay magnetic bearing chillers for central cooling
 Three 800 ton, cooling towers
 Heating Plant: Three 80 psig, 100 bohp, Fulton high pressure steam boilers
 Lighting: All motion-sensor, using 277V. Fluorescent Lighting System
 Electric: Both 208Y/120 V and 480Y/277V 3 phase

