ARCHITECTURAL FACT SHEET

PROJECT DESCRIPTION
The Vagelos Education Center is a new, state-of-the-art medical and graduate education building at Columbia University Medical Center. The building, designed by Diller Scofidio + Renfro, in collaboration with Gensler as executive architect, is a 100,000-square-foot, 14-story glass tower that incorporates technologically advanced classrooms, collaboration spaces, and a modern simulation center to reflect how medicine is taught, learned, and practiced in the 21st century. The design seeks to reshape the look and feel of the Medical Center, and to create spaces that facilitate the development of skills essential for modern medical practice.

KEY DATES

- Design Competition: March 2010
- Groundbreaking: September 16, 2013
- Opening: August 16, 2016

LOCATION
Columbia University Medical Center, 104 Haven Avenue, New York, NY

DESIGN ARCHITECT
Diller Scofidio + Renfro

EXECUTIVE ARCHITECT
GENSLER

SCALE

- 14-story tower + cellar and mechanical penthouse
- Site dimensions: 125’ X 100’
- Gross floor area: 110,000 SF
- Zoned floor plate: 81,000 SF
- Tower floor plate: 6,000 SF
- Base floor plate: 12,500 SF
- Total building height: 220'-0"

LEED

The Vagelos Education Center targets LEED Gold certification. Sustainable features include environmental assets, such as fixed and operable shading to optimize the regulation of daylighting and solar gain by program area; an innovative mechanical system designed to maximize tenant comfort, and minimize energy and water use within the building; green roof technologies that reduce the heat-generating effects of urban asphalt and concrete, lower building energy consumption, and recycle stormwater runoff; and the use of native plantings adapted to the area’s sun and wind conditions to minimize irrigation requirements and produce year-round texture, color, and shelter.
DESIGN AND CONSTRUCTION TEAM

Diller Scofidio + Renfro
Partner-in-Charge: Elizabeth Diller
Principal Designers: Ricardo Scofidio AIA, Charles Renfro AIA, Benjamin Gilmartin AIA
Project Director: Anthony Saby
Project Architect: Chris Hillyard, AIA

Gensler
Principal-in-Charge: Madeline Burke-Vigeland AIA, LEED AP
Project Manager: Kristian Gregerson AIA
Technical Director: Ambrose Aliaga-Kelly AIA
Design Team: Joanne Fernando AIA, Jinho Kim AIA, Michelle Neary AIA, Bill DuBois, Ana Espejo, Mariano Ortiz, Henry Hong RA, Scott Wilson AIA

Structural Engineer
Leslie E. Robertson Associates (LERA)

 MEP Engineer
Jaros Baum & Bolles (JB&B)

Landscape Architect
SCAPE/Landscape Architecture

Curtain Wall Consultants
Buro Happold Consulting Engineers P.C.

Lighting Consultants
Tillotson Design Associates

Acoustic / Audio / Visual Consultants
Cerami & Associates, Inc.

Building Code Consultants
Milrose Consultants, Inc.

Elevator Consultants
Jenkins & Huntington, Inc. (JHI)

Graphic Designers
2x4 and Gensler

Civil / Geotechnical Engineers
Thornton Tomasetti, Weidlinger Transportation Practice

Security and IT Consultants
Jaros Baum & Bolles (JB&B)

Sustainability Consultants
Vidaris Inc.

Foodservice Consultants
Cini-Little International, Inc.

Construction Managers
FJ Sciame Construction Co., Inc.

Owners Representative
Group PMX
The Glass Fiber Reinforced Concrete (GFRC) cladding panel system follows the trajectories of the cascade and defines each ‘neighborhood’ zone of the building.

Insulated stick built glass fin curtainwall with low-iron glass and low-e coating optimizes energy and allows for maximum transparency. Each of the glass fins is unique: length 1.2 to 9m, depth 34 to 61cm, build-up 3 x 10/12/15mm, weight 70kg to 620kg.

Ceramic “frit” patterns and gradients are baked onto the north end of the building to filter and diffuse sunlight while mitigating solar gain.

Unitized aluminum mullion curtainwall with integrated GFRC elements clads the north end of the building.

The interior finishes of the study cascade include Douglas Fir wood veneer wall and ceiling panels, Douglas Fir end grain wood flooring, and solid wood millwork. Higher traffic areas use terrazzo flooring.

The West Court, a garden space shared between the new building and adjacent student residences, features local plant species from the Palisades and views across the Hudson River and to the George Washington Bridge.

The South Court, a new amenity created by configuring the entry to the CUMC parking garage to create a landscaped garden with shaded seating areas and views of the Hudson River.

The building’s structural spine is a site-formed reinforced concrete vertical core, which provides shear capacity. In the cascade, there are reinforced architectural concrete columns with embedded steel-up girders. Post-tensioned, reinforced concrete slabs with embedded structural steel and cobiax void-formers enable the long spans and cantilevers of the south facade.
Study Spaces
A range of intimate lounge-style and desk areas are distributed throughout the study cascade.

Sky Lounge
Intimate and informal gathering space for study groups.

Exterior Terraces
Available for student use at 4th, 8th, 10th, and 13th floors.

Stepped Lounge
A tiered study lounge (on floors 7-8 and 11-12) provides opportunity for formal and informal study.

The Student Commons
A double-height space that features a café, lounge seating, and balconies for both social gatherings and independent study.

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Multi-purpose auditorium
A 275-seat flexible space used for campus-wide events including lectures, screenings, and concerts.

Lobby
The space is formed by a seating area, cafe, and a "study bar" overlooking the outdoor courts.

Specialized Spaces
A vertical stack of loft classrooms, laboratories, technical spaces, offices, and controlled environments.

Active Learning Classrooms
Divided by operable partitions, these 30 / 60 person flexible spaces offer indirect sunlight and controlled views through continuous, full height windows. Flexible furniture configurations are made possible by distributed power and data at the floor, and by suspended ceilings.

Administration Suites
Office and support spaces for faculty and administration.

Simulation Center
A specialized zone with mock examination rooms, clinics, and operating rooms.

Anatomy Quad
Suspended booms with integrated screens and task lighting. Large footprint and central location allows for flexible use.

Special Event Space
190-person classroom / flexible event space with catering support.

Simulation Suite
An open reception area with debriefing rooms and support spaces, as well as further mock examination rooms, clinics, and operating rooms.