

Selected Projects
Educational and Health Care Facilities



BOSTON DESIGN COLLABORATIVE

Architecture, Planning, Urban Design, Interior Design, Graphic Design

BOSTON DESIGN COLLABORATIVE, INC.

FIRM PROFILE

BOSTON DESIGN COLLABORATIVE (BDC) provides a full range of architectural, master planning, urban design, interior design, and graphic design services. Working with the BDC team, clients have a strong sense of partnership in discovering the ideal architectural solution for their projects.

The BDC project team is headed by a Principal-in-Charge / Director of Design who is committed to providing the highest level of excellence during all phases of design--from its inception to post occupancy of the project. The firm's proven design leadership and creativity--along with the ability to manage schedule and budget, as well as deliver with professional competence according to the highest technical standards--are among the most salient characteristics of the organization.

Our talented team of architects and design professionals is committed to the design philosophy of "environmentally responsive architecture" and has been carefully selected to provide the insight and expertise necessary to meet the challenges of complex programming, master planning, and large scale projects. Our award-winning designs attest to our imaginatively resolving the diverse demands of both US based and international clients in an innovative, efficient, and cost-effective manner. Our expertise gives form to our clients' visions. Our design ultimately fosters a "sense of community and of place."

Our expertise includes:

- Educational and Health Care Projects**
- Campus Master Planning**
- Libraries**
- Student Centers**
- Student Housing**
- Science and Engineering Buildings**
- Humanities Buildings**
- Faculty Housing**
- Medical Centers (Master plan and buildings)**
- Laboratories**

Koç University Campus

The Project

Koç University project was won in an invitational competition and was awarded to Mozhan Khadem's office of Boston Design Collaborative as master planner /architect for all campus buildings.

The master plan for a 200 acre university site and 1,500,000 GSF of buildings consists of : Law School, Medical School, Student Center, Library, Administration Building, Business School, Science Building, School of Humanities, School of Engineering, Gymnasium, Dining Halls, Student Dormitories for 900 students, 102 Faculty Housing, Day care, President's House, Faculty Club, Infirmary, Fire House, Guard House, Central Plant, and parking facilities.

The Koç Meydan (Square) is designed to be the hub of College life. Its entry focus is the "Portal of Light" which is oriented to the east and symbolizes the role of Turkey as the gateway between east and west and the university as the gateway of knowledge. The Meydan is flanked by the main Library, Student Center, and Administration Building.

In designing the master plan of the university all spaces were designed around specific social functions and were given names. Bosphorus Terrace is designed for student interaction. It is the pathway to all colleges. The Bosphorus Terrace leads to the Koç Meydan. BDC is currently designing academic buildings for English Preparatory Program as part of the New West Campus Development on a different site.



View of campus promenade

Koç University New Science Building Complex

In design phase

Koç University commissioned BDC to revise the University Master Plan thereby designing new academic buildings to accommodate the expansion requirements of the Colleges of Administrative Sciences, Social Sciences, Sciences, Law, and Engineering. The New Science Building includes 35,000 square meters of high technology science, engineering laboratories, classrooms, seminar rooms, and offices. It is located at the north end of the academic campus. It is designed so that it can become an integral part of the architectural weave of the existing Koç University buildings.



The Court of Knowledge (Light)

This New Academic and Science Facility, as well as its related courtyards, are designed to be a befitting architectural terminus to the sequence of interconnected buildings and courtyards that start from the main entrance portal to the Koç University academic campus, “The Portal of Knowledge (Light).”

“The Portal of Knowledge” leads to the Koç Meydan (Square) and then to the sequence of courtyards named respectively to Schools of Business, Humanities, Science, and Engineering. With the addition of new academic buildings, the mentioned above sequence will terminate in the “Court of Knowledge (Light).” It is called as such since the interconnected new buildings that surrounds the courtyard house all the scientific disciplines of the University.

Koç University New Academic Building Complex

In design phase



Skylight / Pool over High Bay Lab

The central feature of this courtyard is a Skylight/ Pool over the largest Engineering laboratory of the Campus (High Bay Lab), which reflects nature above all the while displaying--for the students, faculty and visitors--the content and activities of the laboratory below, as well as the technological precision of the illuminated Pool/Skylight itself.

Koç University New Academic Buildings

In design phase



The Bosphorus Terrace:

As one travels along the Bosphorus Terrace from the Koç Meydan to the Engineering Building, a sudden turn to the left leads one to a well landscaped area bounded by the façade of the Engineering Building and a “hilly forest” to its right. This unexpected visual experience introduces one to another surprise: the crescendo of the architectural design, hidden behind a natural “hilly forest.” The “Court of Knowledge” unfolds before the observer by traveling further and entering upon it through an almost hidden passage.



Bird's Eye View

Koç University Campus



Top: Campus Common
Bottom: Administration Building
and the Student Center

Koç University Campus



Top: View of Library from Maydan
Bottom: Library - Main Entrance

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Koç University Campus



Top: Library - Main reading room
Bottom: Library - Main Stair Hall

American University in Cairo

The Project

The American University in Cairo (AUC) has relocated its main campus from El Tahrir Square--in the heart of Cairo--to the planned community of New Cairo, where AUC has built a new comprehensive and cohesive campus in some 35 kilometers to the east of downtown Cairo. AUC is one of the largest landowners and employers in New Cairo.

The built area of the campus comprise of some 200,000 square meters, set on a 260-acre site, with an estimated budget of over U S \$400mil for construction. AUC currently occupies 100,000 square meters of owned and rented space on approximately 7 acres in several locations in downtown Cairo. New Cairo is a development with a projected population of 2 to 3 million people, once a desert characterized by Petrified Forest remnants.

The Selection Process for the Master Planner / Urban Designer

Initially the client asked for RFP's on an international basis. 58 firms responded. BDC was short-listed among the first 25, and then it was short-listed again among the next six firms, who were invited to participate in a design competition.

After the competition, AUC announced that the architectural firm of Boston Design Collaborative had been selected to develop the Master Plan / Urban Design for the new campus. The master plan for the new campus as a full-fledged university includes classrooms, offices, and laboratory space for the seven principal schools—the schools of Business, Economics, Communication, Humanities, Social Sciences, Sciences and Engineering.

BDC approach to the Master Plan of the American University in Cairo

Based on our experience with the design of the Aga Khan University in Karachi, Koc University of Istanbul, Jondi Shapour University in Iran, and other examples in the USA--as well as in-depth understanding of examples of significant architectural monuments in Cairo and in the other parts of the Middle East--we conceived the design of the entire AUC campus as the architecture of “continuous interior spaces that surrounds the observer,” rather than the architecture of isolated buildings that stand apart from him.

American University in Cairo



Competition Entry Model



Final Master Plan Bird's Eye View

American University in Cairo

The Competition

Our approach to design addresses the rising desire for identity affirmation in the Middle East. To produce the design we studied the social conditions, the history, literature and arts of the people of the area. Thus our approach to design was holistic. Having learned from many Islamic examples of architecture, we considered the organization of spaces as the “body” of architecture, and the design of surfaces both exterior and interior as the “soul” of architecture. We designed the spaces to respond to the functional program, and the way of life of the users. We designed the exterior and interior surfaces to recall the cultural memory of the people. We also tried to understand the importance of traditional arts of the region, and to provide a modern rendition of it for recalling the cherished ideas and aspirations of the people who use the facility.

List of Invited Competitors:

Boston Design Collaborative/ CRJA
Cannon
Ellerbe Becket
The Hillier Group
RTKL Associates
Sasaki/
Community Design Collaborative

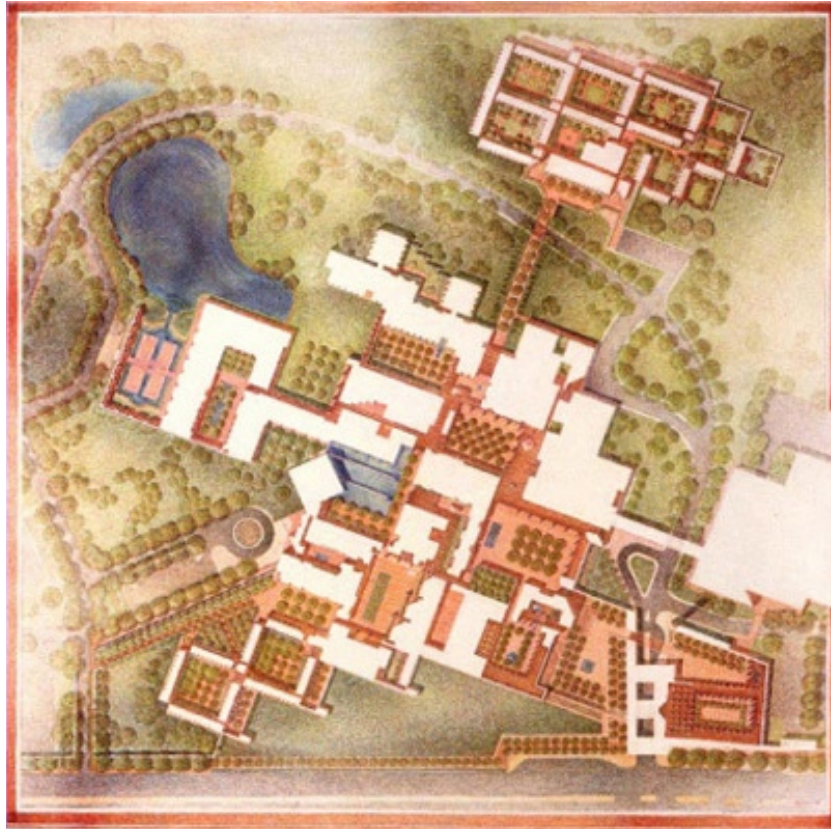
Jury:

Ismail Serageldin; architect and V.P. World Bank;
Charles Correa, architect;
Ricardo Legoretta, architect;
John Hayes, AUC trustee and
Chair Relocation Committee;
Elizabeth Driscoll, AUC trustee;
Tim Sullivan, AUC Provost;
Kenneth Toepfer, former
AUC Executive Vice President.



Humanities Court

Aga Khan University Hospital Health Sciences Campus



Campus Master Plan

H.H. The Aga Khan selected Mozhan Khadem as the Design Consultant for the Aga Khan University in Karachi. In this capacity, Mozhan Khadem conceptualized the University and hospital as “the architecture of continuous interior spaces that surrounds the observer”—a Middle Eastern tradition of Indo-Persian and Moghul architectural heritage of Pakistan. The plan contains a progression of sequential and unfolding landscaped courtyards, open spaces, entrance portals, fountains, and water features. The university consists of School of Health Sciences, School of Medicine, Library, Auditorium, Teaching Hospital, Nursing School, Private Hospital, Outpatient Clinic, Student Dormitories, and Sports Facilities.

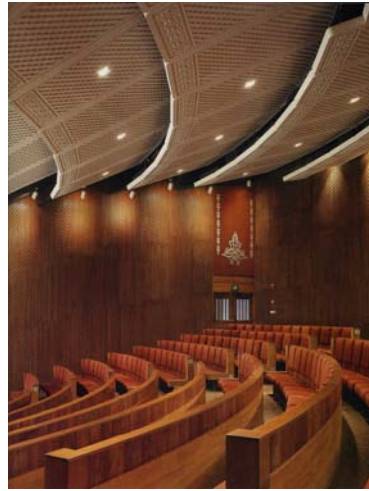
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Aga Khan University Hospital Health Sciences Campus



Entrance Portal



Auditorium



Private Hospital

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Sylvester Cancer Clinic



Collonade

Built for the University of Miami Medical School in Florida, Sylvester Cancer Clinic is one of the first comprehensive cancer treatment centers in the United States.

As the first comprehensive Cancer Clinic Center in USA (including residential facilities for cancer patients), the project includes Diagnostic and Treatment, Radiation, Chemotherapy, Research Laboratories and Inpatient Bed Facilities.

The design responds to the site, climate, and culture of the user. The facility has a unique sense of place, and is an oasis of tranquility in the middle of a dense medical campus.



View from Courtyard



Main Stair

University Hospitals of Cleveland



Alfred and Norma Lerner Tower

This complex is a 250 bed acute care center and its related diagnostic and treatment facilities. The project consisted of 650,000 square feet of space (65,000 M2). The project was dedicated by General Colin Powell.

University Hospitals of Cleveland



Interior view of lobby

American Hospital in Istanbul



Interior view of lobby



Interior view of lobby

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Armed Forces Medical City, Rawalpindi, Pakistan



Competition Model

This project was won in an international competition by Mozhan Khadem, Director of Design and Principal-in-Charge.

14 international firms participated in the competition. The project includes 2,000,000 square feet of building program.

Armed Forces Medical City Rawalpindi, Pakistan includes the following:
2000 bed Hospital, Women Hospital, Outpatient Facilities, Medical School, Nursing School, Community Center, Staff and Student Housing, Shopping Center



Competition Rendering

Jackson Laboratory



Stair Tower



Roof Terrace

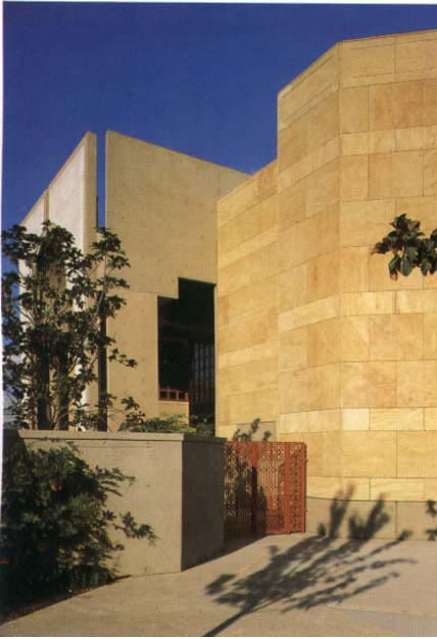
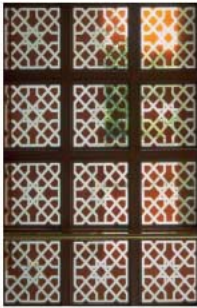
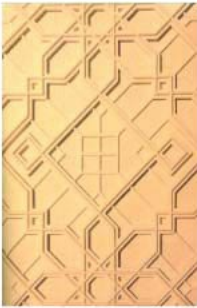
For more than 70 years The Jackson Laboratory, a nonprofit institution, has been at the forefront of discovering cures for human diseases. Unrivaled in mouse genetics research, the Laboratory supplies resources and information to universities and research laboratories around the world.

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Burnaby Jamatkhana Ismaili Cultural and Education Center



Mozhan Khadem was commissioned to provide specialized consulting services with regard to interior design and surface treatments (interior and exterior) of the Burnaby Jamatkhana facility. In this capacity, he worked directly with H.H. Prince Ayn Aga Khan and Bruno Freschi Architects.





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