The Center for Architecture, Design, and Education (CADE) is an engine of learning for a changing world where automation could replace most workers, where income divides threaten to nullify the school as socio-economic equalizer, and where learning is a lifelong commitment.

Under these circumstances, education must involve real world applications to overcome student apathy, foster social networks between students of different backgrounds, and venture beyond the classroom.

To do so, this CADE design uses three strategies:

1) Learning by Delivery
   Students of both the High School and after-school programs must be empowered through their work. Their education will be based on project delivery, where students manage and participate in real world projects formulated by city officials and teaching staff. Study, Design, Make, and Review is the new workflow.

2) Sandbox
   Each space is designed not around a packaged identity - “Grammar” - but based on activities and usage frequency. The CADE’s major programs rise through a self-shading vertical sandbox of flexible platforms connected by flow spaces that host public reviews, brainstorming sessions, and lectures. Education thus involves intensive public participation.

3) Adaptive Reuse
   The CADE leverages Chicago’s rich architectural heritage by integrating new spaces into an existing tower. Its structure, spaces, and skin becomes a live demonstration of how we shape the built environment and vice versa. Exposed building systems and intersections between new and old structural systems serve as teaching tools on integrated building design.

1. LEARNING BY DELIVERY

   STUDY
   Design
   Make
   Review

2. SANDBOX

   SCHOOL
   HIGH SCHOOL
   AFTER SCHOOL
   GYM
   SHARED
   LIBRARY
   CAFETERIA
   AUDITORIUM
   OFFICES
   UTILITIES
   ELEVATORS
   BATHROOM
   PUBLIC
   EXHIBITIONS
   LOBBY

3. ADAPTIVE REUSE

   Exposed Building Systems
   Juxtaposing Old and New

   Structure
   Skin
   NEW BUILDING
   EXISTING BUILDING

CHICAGO ARCHITECTURE FOUNDATION