the art of engineering

How would you design 1.8 million square feet? This past spring, undergraduates in the Architectural Engineering and Design program were tasked with designing a mixed-use high-rise development for downtown Chicago. The result? Skyscrapers featuring a combination of hotel rooms and luxury apartments, printed in miniature on McCormick’s Z450 3D printer. The project was the culmination of the six-course certificate program, which prepares engineering students for collaborative careers in the building industry—as architects, structural designers, builders, project managers, or developers. In addition to coursework, the program offers students the opportunity to work abroad every two years in a renowned architect’s studio. Integrating creativity, design methods, history, and research, the program is directed by Laurence Booth, Richard Halpern/RISE International Distinguished Architect in Residence and design principal of Booth Hansen Associates.