

# MSCE, Emerging Technologies in Construction

*The excitement of this field stems from that fact that I get challenged every day in class. It has molded me with leadership qualities and an entrepreneurial mindset.*

*- Duajj AlSabah*



Explore an integrative approach to design, engineering, construction, and technology in this multi-disciplinary program that prepares the next generation of leaders and innovators to harness the power of technological innovation, catalyze change, and offer advanced and sustainable solutions to the largest industry in the world, Architecture, Engineering, and Construction (AEC).

Graduates gain a variety of employment opportunities and can expect to find roles in firms that focus on **civil infrastructure, smart cities, buildings, and technology**. This may include general contractors, real estate developers, industrialized construction, or global architectural, engineering, and construction firms.

## WHY CHOOSE USC?

- **Develop expertise** in civil engineering, construction technologies, design, entrepreneurship, computing, and data analysis
- Build meaningful connections with **leading faculty** of construction technologies, civil engineering, computer & data science, AI, design, and entrepreneurship
- Gain competitive leverage through **practical experience** and **industry engagement**



**Scan to learn more about our Master's degrees and the Astani Graduate Scholars Program!**

*\*All applicants who submit an application by the deadline are considered for merit-based scholarships. The Astani Graduate Scholars program offers engagement in academic and industry research, along with financial support.*



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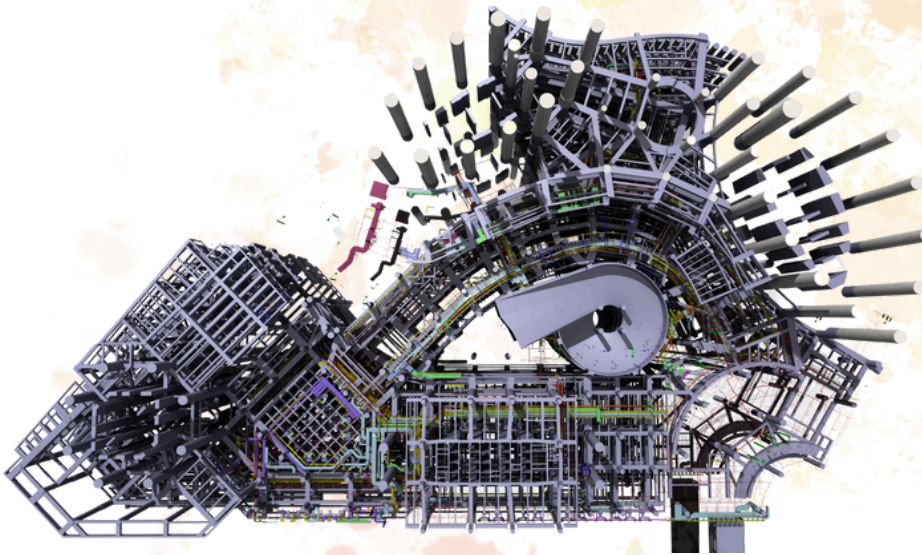
One of the biggest goals for civil engineers is to make things more sustainable. That, alongside with how society is growing, expectations are ever-changing, means buildings today get to reflect the things we value.

- Nicholas Tanga



## OUR GRADUATES WORK AT

WEBCOR, SWINERTON, DPR,  
TURNER, BALFOUR BEATTY,  
KLORMAN CONSTRUCTION,  
WALT DISNEY IMAGINEERING,  
ARUP, SUFFOLK  
CONSTRUCTION



## SAMPLE COURSES:

- CE 470: Building Information Modeling and Integrated Practice
- CE 573: Advanced Technologies in AEC Practices
- CE 568: Fundamental Concepts of Computing and Programming in CEE
- CE 578: Technology Enabled Integrated Design

## KEY FACULTY



**Dr. Lucio Soibelman**

Advanced data acquisition, management, visualization, and mining for construction and operations of advanced infrastructure systems



**Dr. Burcin Becerik-Gerber**

Advanced data acquisition, modeling, visualization for design, construction, and control of user-centered responsive and adaptive built environments



**Dr. David Gerber**

Development of innovative systems, tools, methods for design of the built environment; integration of computer science, robotics, and engineering with architecture



**Dr. Berok Khoshnevis**

Automated construction; computer-automated fabrication processes; robotics and autonomous systems; computer simulation