

KEY TAKEAWAYS:

01

Develop expertise in Civil Engineering, Construction Technologies, Design, Visualization, Computing, and Data Analysis

02

Build meaningful connections with leading faculty of construction technologies, civil engineering, computer & data science, AI, design, and entrepreneurship

03

Gain competitive leverage through practical experience and industry engagement



- Duajj AlSabah, MSCE Advanced Design & Construction Technology, '22

“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.”

MSCE ADVANCED DESIGN & CONSTRUCTION TECHNOLOGY

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 global problems.

CAREER PATHS

Graduates have 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.

APPLICATION DEADLINES

Fall: January 15, 2024

Spring: September 15, 2023

Applicants who submit a complete application by the deadline will be considered for partial, merit-based scholarships.

PROGRAM SNAPSHOT

Sample Courses

- Advanced Technologies in AEC Practices
- Fundamental Concepts of Computing and Programming in Civil and Environmental Engineering
- Energy and Environment
- Data Analysis and Visualization
- Design and Innovation
- Technology Enabled Integrated Design

Industry Ties

- Graduates working at: **Stanford, Princeton, MIT, Columbia, Webcor, Swinerton, DPR, Turner, Balfour Beatty, Walt Disney Imagineering and Arup**
- Guest speakers from: **Amazon, Buro Happold, SOM, Autodesk, Jacobs Engineering, Google, NVIDIA, Dassault Systèmes**

Meet our Faculty



Burcin Becerik

User-centered, responsive, and adaptive built environments; infrastructure information modeling & visualizations



Lucio Soibelman

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



Berok Khoshnevis

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



David Gerber

Development of innovative systems, tools, and methods for design of the built environment



"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,
MSCE Advanced Design & Construction Technology, '24

RESEARCH LABS & CENTERS

[Innovation in Integrated Informatics Lab \(iLAB\)](#)

[Structures and Materials Research Lab](#)

[Center for Intelligent Environments \(CENTIENTS\)](#)



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