

**University of Southern California**  
**VITERBI SCHOOL OF ENGINEERING**

Master of Science in Civil Engineering (Advanced Design and Construction Technology)  
*Program Learning Objectives*

The purpose of the USC Viterbi School of Engineering Master of Science in Civil Engineering (Advanced Design and Construction Technology) program is to prepare students for leading digital transformation and innovation in the built environment in preparation for employment in Architecture, Engineering, Construction industries and technology firms.

- Upon completion of the USC Master of Science in Civil Engineering (Advanced Design and Construction Technology) program, students will be able to demonstrate understanding and execution of a broad array of technical and nontechnical activities; and the design, engineering and technological environments which cover the most current theories and professional practice.
- Upon completion of the USC Master of Science in Civil Engineering (Advanced Design and Construction Technology), students will be able to apply critical principles and practices pertinent to the Master of Advanced Design and Construction Technology in their professional practice.
- Upon completion of the USC Viterbi School of Engineering Master of Science in Civil Engineering (Advanced Design and Construction Technology) degree, students will be able to work in diverse global contexts and apply universally respectful and globally applicable practices.
- USC students enrolled in the Master of Science in Civil Engineering (Advanced Design and Construction Technology) program will demonstrate understanding of contemporary design, engineering, innovation and technological principles and associated innovative practices relevant to professional practices and theories relating to data, computation, BIM, sustainability, simulation and process simulation.