

# MSCE, Transportation Engineering

*I have benefited so much from [the relationships I built at USC and METRANS], giving me valuable connections to the professionals and researchers in the transportation field I never would have been able to establish on my own. -Zhaoyang Li, MSCE Transportation Engineering*



Learn the tools, techniques, and approaches needed to build sustainable and inclusive transportation systems focused on smart mobility. Leveraging its leadership in research and education, strategic location, and significant ties to industry, our transportation degree programs provide exceptional professional preparation for career advancement.

## WHY CHOOSE USC?

- We are a **leader in research** on urban freight movement, adaptive cruise control, autonomous vehicles and AI
- We are **located in Los Angeles**, which is a bustling global trade hub with competitive job opportunities
- We have a **close-knit, multi-disciplinary program** with tailored curricula and individualized advisement



**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.*



# MSCE, Transportation Engineering

## PROGRAM OBJECTIVE

Foster expertise in engineering, technical design, modeling, and development for advanced transportation systems.

## WHO SHOULD APPLY?

Students with backgrounds in civil engineering or engineering-related disciplines such as industrial, mechanical, and electrical engineering who want to work in any aspect of the transportation industry or pursue a transportation doctoral program in the US.



## OUR GRADUATES WORK AT

AECOM, HDR, HNTB, LADOT,  
JACOBS, FEHR & PEERS,  
DKS ASSOCIATES,  
CALTRANS, ITERIS, ARUP,  
LSA, MOFFATT & NICHOL



## SAMPLE COURSES:

- CE 521: Transportation Systems Analysis
- CE 583: Design of Transportation Facilities
- CE 589: Port Engineering: Planning and Operation
- CE 584: Intelligent Transportation Operations

## KEY FACULTY



**Dr. Ketan Savla**

Systems and control, optimization, dynamical networks, queueing systems, infrastructure and robotics



**Dr. Geraldine Knatz**

Seaport policy and management, maritime transportation, international trade, seaport sustainability, environmental impact analysis



**Dr. Roxana Javid**

Sustainable transportation, regional policy analysis, big data analysis, transportation and public health, energy and emissions



**Dr. Ruolin Li**

Future mobility systems, autonomous vehicles, game theory, control and optimization



**Professor Eric Shen**

Registered Professional Engineer,  
Certified Transportation Professional  
Planner, Certified Port Executive