

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

Master of Science in Spatial Informatics  
Program Learning Objectives

Geospatial data accessibility, spatial decision support systems and geospatial problem solving environments are revolutionizing most industries and disciplines, including health care, marketing, social services, human security, education, environmental sustainability and transportation. Progress in these domains requires professionals that can draw upon engineering, computer science and spatial sciences principles to solve data-intensive, large-scale, location-based problems. The USC Viterbi School of Engineering Master of Science in Spatial Informatics provides students with the skills to address new, data-intensive questions in spatial informatics.

- Upon completion of the USC Viterbi School of Engineering Master of Science in Spatial Informatics program, students will understand and contribute toward the significant technical and societal challenges created by large location-based data environments, including architecture, security, integrity, management, scalability, artificial intelligence topics and distribution.
- Upon completion of the USC Master of Science in Spatial Informatics program, students will understand the principles and application of informatics and geographic information science (GIS), and the goals of enterprise information intelligence and analytics.
- Upon completion of the USC Master of Science in Spatial Informatics program, students will utilize technical, engineering and GIS skills coupled with informatics capabilities to intelligently mine data to provide enterprise-centric solutions for diverse societal issues.
- USC students enrolled in the Master of Spatial Informatics program will demonstrate understanding of contemporary engineering design principles and associated innovative practices relevant to theories and application of data informatics and spatial sciences, and be able to implement these practices under guidance of Informatics faculty members in preparation for employment in a diverse set of industries.