

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

Master of Science in Operation Research Engineering  
Program Learning Objectives

The purpose of the USC Viterbi School of Engineering Master of Science Program in Operations Research Engineering is to prepare students for high level professional employment in positions that require advanced quantitative computational tools to solve large-scale complex engineering and business problems.

Upon completion of the Viterbi School of Engineering Master of Science in Operations Research Engineering:

- Students will be able to develop optimization models to solve resource constrained problems encountered in the private or public sectors.
- Students will be able to use state-of-the-art software to build predictive models of large-scale complex systems.
- Students will have a fundamental understanding of the design of information systems for the retrieval, manipulation, and use of data.
- Students will be able to apply a systems-based problem solving approach within diverse global contexts.