

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

Master of Science in Financial Engineering  
*Program Learning Objectives*

The purpose of the USC Viterbi School of Engineering Master of Science in Financial Engineering is to prepare students for high-level professional employment in any sector of the financial systems arena that incorporates analytical techniques; or, to pursue advanced graduate studies focusing on related problems in the field. Graduates might pursue employment or advanced graduate study relating to finance, business, economics, financial simulation and optimization, or stochastic systems.

- Upon completion of the USC Master of Science in Financial Engineering, students will be able to demonstrate broad understanding of financial systems, including investing and risk analysis, financial simulation and optimization, and stochastic systems.
- Upon completion of the USC Master of Science in Financial Engineering, students will be able to apply critical principles and skills pertinent to MS Financial Engineering duties in their employment and professional practice.
- Upon completion of the USC Master of Science in Financial Engineering, students will be able to work in diverse global contexts and apply universally respectful and globally centric practices pertinent to MS Financial Engineering duties in international and domestic contexts.
- USC students enrolled in the Master of Science in Financial Engineering will demonstrate understanding of contemporary research questions, results, and areas of application relating to financial systems.