

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

Master of Science in Petroleum Engineering (Geoscience Technologies)

*Program Learning Objectives*

The purpose of the USC Viterbi School of Engineering Master of Science program in Petroleum Engineering (Geoscience Technologies) is to prepare students for careers in the oil and gas industries where the future of the energy companies today rests on unconventional resources and modern techniques for mapping and monitoring of subterranean resources. This technology relies on basic concepts of physics, chemistry, mathematics, geology, and advanced computing, among others. The learning objectives for the Master of Science degree program in Petroleum Engineering (Geoscience Technologies) are:

- Upon completion of the USC Master of Science degree program in Petroleum Engineering (Geoscience Technologies), students will have learned tools and methods so they can obtain employment in organizations that have at their core function the mapping, monitoring and developing of subsurface conventional and unconventional resources.
- Upon completion of the USC Master of Science degree program in Petroleum Engineering (Geoscience Technologies), students will be able to engage in continuous personal and professional development through life-long learning.
- Upon completion of the USC Master of Science degree program in Petroleum Engineering (Geoscience Technologies), students will be able to assume leadership roles in their employment organization and related professional societies.