

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

Master of Science in Computer Science (Intelligent Robotics)  
*Program Learning Objectives*

The purpose of the USC Viterbi School of Engineering Master of Science in Computer Science (Intelligent Robotics) program is to prepare students for high level professional employment in any sector of computer science that incorporates robotics; or to pursue advanced graduate studies focusing on related problems in the field. Graduates might pursue computer science-related employment or advanced graduate study in diverse real-world domains including energy, the environment, health, media, medicine, transportation, and manufacturing.

- Upon completion of the USC Master of Science in Computer Science (Intelligent Robotics) program, students will be able to demonstrate broad understanding of designing and building mobile robots, sensors, control theory, artificial intelligence, and knowledge representation.
- Upon completion of the USC Master of Science in Computer Science (Intelligent Robotics) program, students will be able to apply critical principles and skills pertinent to MSCS (Intelligent Robotics) duties in their employment and professional practice.
- Upon completion of the USC Master of Science in Computer Science (Intelligent Robotics) program, students will be able to work in diverse global contexts and apply universally respectful and globally centric practices pertinent to MSCS (Intelligent Robotics) duties in international and domestic contexts.
- USC students enrolled in the MSCS (Intelligent Robotics) program will demonstrate understanding of contemporary research questions, results, and areas of application relating to intelligent robotics.