

GRADUATE PROGRAM

Engineering with a Concentration in Materials and Manufacturing Technology



Materials and manufacturing technology is concerned with the generation and application of knowledge related to the complex interplay of processing, structural evolution, properties and performance of materials and manufactured products.

MMT has become a key component of engineering education. The recent development of novel manufacturing technologies in the manufacturing process are revolutionizing the way we think about making products.

DEGREES OFFERED

M.S. & Ph.D.

HIGHLIGHTS

- Interdisciplinary environment
- Integration of materials and manufacturing processes
- Designed to meet the real-world demands and rapid changes in technology
- Great location and connections to industry

RESEARCH FOCUS AREAS

- Biomedical and Electronic Manufacturing
- Chemical Processing and Production
- Electronic and Photonic Materials and Devices
- Materials Engineering

AFFILIATED FACILITIES

- Bio-Organic Nanofabrication Lab
- Institute for Design and Manufacturing Innovation
- Integrated Nanosystems Research Facility
- Irvine Materials Research Institute

RECOMMENDED BACKGROUND

Given the nature of materials and manufacturing technology as an interdisciplinary program, students with a background and suitable training in either materials, engineering (biomedical, civil, chemical, electrical and mechanical), or the physical sciences (physics or chemistry) are encouraged to apply.

Recommended background courses include an introduction to materials, thermodynamics, mechanical properties and electrical/optical/magnetic properties. A student with an insufficient background may be required to take remedial undergraduate courses following matriculation as a graduate student.

LEARN MORE!

