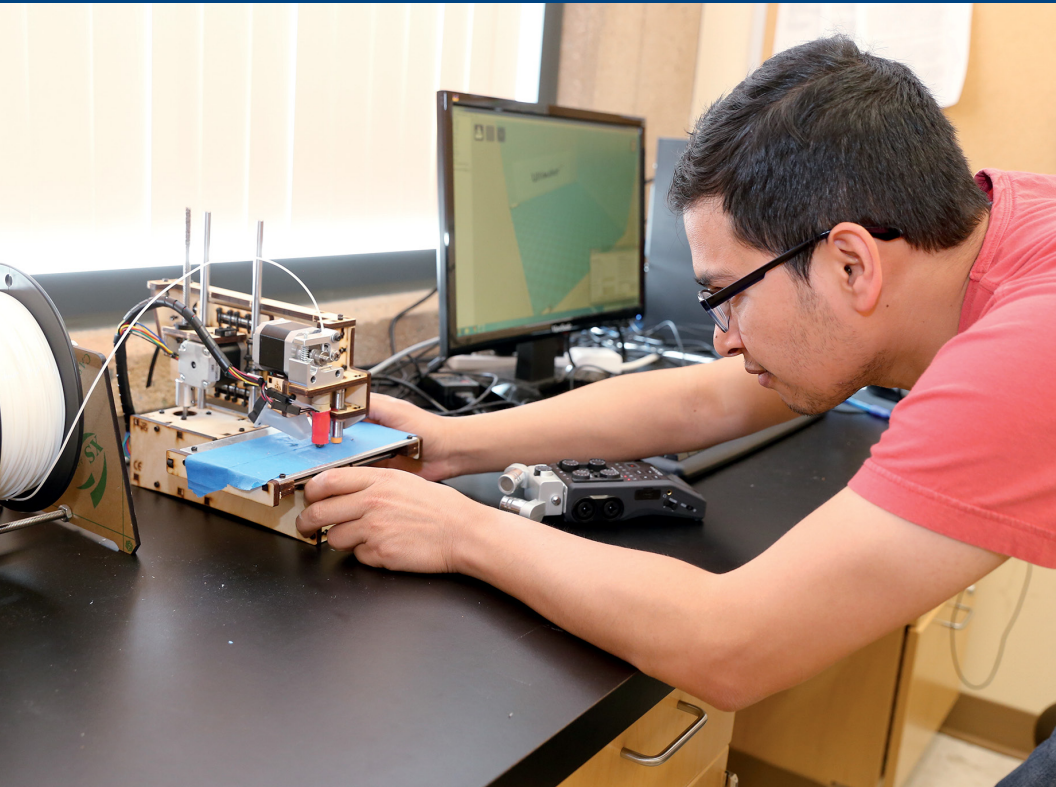# Electrical and Computer Engineering

Electrical and computer engineering is a broad field encompassing diverse subject areas.

Knowledge of the mathematical and natural sciences is applied to the theory, design and implementation of devices and systems for the benefit of society.

CONCENTRATIONS

- Computer Engineering
- Electrical Engineering

DEGREES OFFERED

Ph.D., M.S., M.Eng Concentration

HIGHLIGHTS

- A collaborative and diverse environment
- Cutting-edge and interdisciplinary research
- Great location and connections to industry
- Internationally renowned faculty who are experts in their fields

AFFILIATED FACILITIES

- California Institute for Telecommunications and Information Technology
- Center for Embedded Computer Systems
- Center for Pervasive Communications and Computing
- Integrated Nanosystems Research Facility
- ProperData

RESEARCH FOCUS AREAS

- Electronic Devices, Circuits
- Optoelectronics, Microscopy, Nano-optics, Photonics
- NanoBioElectronics & Sensing, MEMS
- Machine Learning
- Communications and Information Theory
- Signal and Image Processing
- Autonomous Systems
- Embedded Systems
- Computer Architecture
- Security and Privacy

ADMISSIONS

Applicants are evaluated based on prior coursework and potential for creative research and teaching.

Minimum score of 80 on the Test of English as a Foreign Language (TOEFL iBT) is recommended of all international students whose native language is not English.

RECOMMENDED BACKGROUND

It is strongly recommended that students have a background and training in core engineering topics.

A student who enters the program without adequate undergraduate preparation may be required to complete additional coursework.

LEARN MORE!