ACADEMIC DEPARTMENTS

BIOENGINEERING

- 24 Faculty
- 672 Undergraduates
- 253 Graduate students

- bioinformatics & genomics
- biomechanics
- biomaterials & biophotonics
- biosensors
- cardiac mechanics & cardiology
- cartilage tissue engineering
- cell mechanics
- microcirculation & microhemodynamics
- molecular bioengineering
- nanotechnology
- neuroengineering
- stem cells & regenerative medicine
- systems biology

MECHANICAL & AEROSPACE ENGINEERING

- 45 Faculty
- 973 Undergraduates
- 359 Graduate students

- biomaterials/biomimetics
- cell and membrane mechanics
- control, estimation and optimization
- energy technologies
- environmental technologies
- hard disk drive tribology
- high-energy materials processing
- matter at extreme conditions
- medical device technology
- MEMS for extreme and biological environments
- metamaterials
- robotics, networked systems
- solid and soft matter
- turbulence, geophysical flows, macro/microfluidic flows

COMPUTER SCIENCE & ENGINEERING

- 51 Faculty
- 2,190 Undergraduates
- 385 Graduate students

- bioinformatics
- computer architecture
- computer science pedagogy
- databases
- embedded systems & design
- graphics and vision
- machine learning
- programming languages & compilers
- security and cryptography
- software engineering
- systems and networking
- theoretical computer science

NANOENGINEERING

- 19 Faculty
- 1,040 Undergraduates
- 118 Graduate students

- biomedical nanotechnology
- chemical engineering
- computational materials science
- materials engineering
- nanomanufacturing and nanorobotics
- nanotechnologies for energy storage and conversion
- synthesis of advanced nanomaterials

ELECTRICAL & COMPUTER ENGINEERING

- 47 Faculty
- 1,303 Undergraduates
- 478 Graduate students

- bionanotechnology
- electromagnetics
- electronic circuits and systems
- embedded systems
- information technology and communications
- intelligent systems/robotics
- machine learning
- magnetic and optical storage
- medical devices and systems
- nano-electronics/nano-photonics
- network infrastructure
- photonic devices and systems
- signal/image/video processing
- systems energy engineering

STRUCTURAL ENGINEERING

- 23 Faculty
- 671 Undergraduates
- 169 Graduate students

- large-scale testing research
- composite and nano-materials
- computational mechanics for extreme events damage prediction
- earthquake engineering and infrastructure renewal
- lightweight structural systems
- multi-hazard mitigation including earthquakes and blast
- risk engineering
- structural health monitoring
STRATEGIC GROWTH

With demand for our education and research programs at record levels, our values and interdisciplinary initiatives guide us.

Values

Engineering for the global good
Exponential impact through entrepreneurism
Collaboration to enrich relevance

Interdisciplinary initiatives

Contextual Robotics
Engineering and Clinical Medicine
Materials and Energy
Global Entrepreneurism
Oceans and Environment
Maker Space and Design
Global Production and Innovation

INNOVATION HAPPENS HERE

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UC San Diego by the numbers

$1.1 Billion Research Enterprise
5th in the nation for NSF R&D expenditures

1,572 Faculty
24,810 Undergraduates (Fall 2014)
6,692 Graduate Students (Fall 2014)