

RELEVANCE + EXCELLENCE

Through research, education and entrepreneurship, we solve global challenges while creating career opportunities, generating IP, launching companies and supporting industry clusters.

INTERDISCIPLINARY INITIATIVES

Engineering and Clinical Medicine

Materials and Energy

Global Entrepreneurism

Oceans and Environment

Maker Space and Design

Global Production and Innovation

Contextual Robotics

UC San Diego by the numbers

\$1.0 Billion	Research Enterprise
5th in USA	For Federal R&D Expenditures
1,611	UC San Diego Faculty
26,590	Undergraduates (Fall 2015)
7,145	Graduate Students (Fall 2015)

224 PROFESSORS

18 New faculty hired in 2015

17-23 New faculty to be hired in 2016

8,921 ENGINEERING STUDENTS

6,677 Undergraduate students

1,198 Bachelors degrees conferred

1.177 Masters students

438 Masters degrees conferred

1,067 PhD students

163 PhD degrees conferred

\$162M IN RESEARCH FUNDING

\$117M Government-sponsored research

\$45M Industry-sponsored research + income from gifts/endowments

CONTEXTUAL ROBOTICS INSTITUTE

We develop safe, useful robotics systems that will act based on real-time context for disaster response, medicine, transportation and more. Launched by the Jacobs School of Engineering and the Division of Social Sciences at UC San Diego.

AGILE RESEARCH CENTERS

CaliBaja Center for Resilient Materials & Systems
Center for Extreme Events Research
Center for Microbiome Innovation
Center for Visual Computing
Center for Wearable Sensors
CHO Systems Biology Center
Sustainable Power and Energy Center

ACADEMIC DEPARTMENTS

BIOENGINEERING

- 25 Faculty
- 621 Undergraduates
- 252 Graduate students



- bioinformatics / genomics
- biomechanics / biomaterials
- biophotonics / biosensors
- cardiac mechanics, cardiology, cardiovascular engineering
- cartilage tissue engineering
- cell / tissue mechanics
- genomic engineering
- metabolic bioengineering
- microcirculation / microhemodynamics
- molecular / cellular bioengineering
- nanotechnology
- neuroengineering
- stem cells / regenerative medicine
- · systems biology

MECHANICAL & AEROSPACE ENGINEERING

44 Faculty

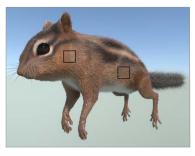
1,008 Undergraduates

477 Graduate students

- biomaterials / biomimetics
- cell / membrane mechanics
- control, estimation and optimization
- energy technologies
- environmental technologies
- hard disk drive tribology
- high-energy materials processing
- materials for 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

- 54 Faculty
- 2,279 Undergraduates
- 586 Graduate students



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

NANOENGINEERING

- 26 Faculty
- 912 Undergraduates
- 146 Graduate students
- 0000
- nanobiotechnology
- nanomedicine
- computational materials science
- advanced nanomaterials
- nanomanufacturing
- nanorobotics
- nanotechnologies for energy storage and conversion
- stretchable electronics
- chemical engineering

ELECTRICAL & COMPUTER ENGINEERING

- 51 Faculty
- 1,269 Undergraduates
- 587 Graduate students



- bioinformatics / bionanotech
- brain imaging / mapping
- cyber-physical sys. security
- electromagnetics
- electronic circuits and systems
- embedded systems
- info tech / communications
- intelligent systems / robotics
- machine learning
- magnetic and optical storage
- medical devices and robotics
- nanoelectronics
- network infrastructure
- neural interfaces
- photonics / nanophotonics
- signal/image/video processing
- systems energy engineering
- wearable sensors

STRUCTURAL ENGINEERING

- 24 Faculty
- 588 Undergraduates
- 196 Graduate students



- large-scale experimental research
- earthquake engineering and infrastructure renewal
- multi-hazard mitigation for earthquakes, blasts and more
- computational mechanics for extreme events damage prediction
- aerospace structures / safety
- composites / nanomaterials
- computational fluid-structure interaction analysis
- biomechanics / geomechanics
 - geotechnical engineering
- risk analysis / visualization
- structural health monitoring / nondestructive examination