How we do it
When we collaborate with industry, government and academia, we actually listen.

The result: deep interactions and bold collaborations within UC San Diego's $1.45 billion research enterprise, throughout San Diego's tech ecosystems, across California, the nation and the world.

We are a top 9 engineering school with the creativity and openness necessary to tackle the toughest shared challenges for the public good.

In Franklin Antonio Hall, we are creating a national model for innovation ecosystems with geographical roots and national reach.

We solve the tough challenges no lab, discipline, or company can take on alone.

#9 Engineering School in the USA
*2022 U.S. News Rankings of Best Engineering Schools

#1 in nation for research $ per faculty member, among U.S. public engineering schools*

#2 Public engineering school in California*
#5 Public engineering school in the USA*

$222M Total research expenditures for 2019-2020 at the Jacobs School of Engineering

$69M Industry-sponsored research expenditures; and funding from gift + endowment income

14 Industry-sponsored centers and institutes launched in the last 7 years

We are transforming engineering education, at scale

How we do it
We empower one of the largest — and strongest — cohorts of undergraduate students in the nation to apply engineering and computer science theory to real-world problems.

In 2020, we initiated and strengthened a series of culture-building programs at the Jacobs School. Our goal is to create and support environments in which all of our students can do the creative and innovative technical work they are so capable of.

The Jacobs School of Engineering at UC San Diego is the largest engineering school on the West Coast, according to the latest enrollment data from ASEE

9,174 Engineering Students (Fall 2020)
6,276 BS / 1,581 MS / 1,317 PhD

2,647 Engineering Degrees (2019-2020)
1,409 BS / 1,018 MS / 220 PhD

281 24 New faculty hired for Fall 2020
130+ faculty hired in the last 7 years
ACADEMIC DEPARTMENTS

BIOENGINEERING
- autodigestion
- bioinformatics
- biomaterials / biomechanics
- cell / tissue mechanics
- biophotonics / biosensors
- cardiac mechanics
- cardiovascular engineering and imaging
- cartilage / tissue engineering
- genomic engineering
- metabolic bioengineering
- microcirculation / transfusion medicine
- molecular / cellular bioengineering
- nanotechnology
- neuroengineering
- regenerative medicine / stem cells
- systems bioengineering
- translational bioengineering

Faculty: 30
Undergraduates: 575
Graduate students: 349

MECHANICAL & AEROSPACE ENGINEERING
- aerospace technologies
- biomaterials, bio-inspired tech
- cell / membrane mechanics
- control and optimization
- combustion
- high-energy materials processing
- materials for extremes
- medical device technologies
- MEMS for extremes
- networked control systems
- renewable and carbon-neutral energy technologies
- robotics and design
- solid and soft matter mechanics of metamaterials
- thermo-physics, heat and mass transfer
- tribology for memory storage
- turbulence, geophysical flows, macro/microfluidic flows

Faculty: 57
Undergraduates: 1,205
Graduate students: 548

COMPUTER SCIENCE & ENGINEERING
- artificial intelligence / machine learning
- bioinformatics
- computer architecture
- computer science pedagogy databases and info mgmt.
- embedded systems, VLSI/CAD
- graphics and vision
- human-computer interaction
- programming languages
- robotics
- security and cryptography
- software engineering
- systems and networking
- theoretical computer science

Faculty: 67
Undergraduates: 1,959
Graduate students: 767

NANOENGINEERING
- advanced nanomaterials
- computational materials science
- nanobiotechnology
- nanomanufacturing
- nanomedicine
- nanophotonics
- nanorobotics
- nanosensors
- nanotechnologies for energy storage and conversion
- stretchable, flexible electronics
- sustainable nanoeengineering
- wearable devices

Faculty: 31
Undergraduates: 621
Graduate students: 176

ELECTRICAL & COMPUTER ENGINEERING
- applied electromagnetics
- bioinformatics / bionanotech
- brain imaging / mapping
- communications systems
- cyber-physical systems security
- electronic circuits / systems
- embedded systems
- intelligent systems / robotics
- machine learning and data science
- magnetic and optical storage
- medical devices and systems
- nanoelectronics
- network infrastructure
- neural interfaces
- photonics / nanophotonics
- signal/image/video processing
- systems energy engineering
- wearable sensors

Faculty: 63
Undergraduates: 1,459
Graduate students: 869

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

Faculty: 25
Undergraduates: 457
Graduate students: 189