WE MAKE BOLD POSSIBLE.

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

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 $1.54 billion research enterprise, throughout San Diego’s tech ecosystems, across California, the nation and the world.

We are a top 10 engineering school with the creativity and openness necessary to tackle the toughest shared challenges for the public good.

In Franklin Antonio Hall, we created a national model for innovation ecosystems with local roots and international reach.

Snaphot 2022

#10!!!
ENGINEERING SCHOOL IN THE USA

*2023 U.S. News Rankings of Best Engineering Schools

| #2                          | #2 Public engineering school in California*
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>$218M</td>
<td>Total research expenditures for 2020-2021 at the Jacobs School of Engineering</td>
</tr>
<tr>
<td>1/3</td>
<td>One third of our research expenditures come from university-industry research partnerships that drive relevance</td>
</tr>
<tr>
<td>16</td>
<td>Industry-sponsored centers and institutes launched in the last 8 years</td>
</tr>
<tr>
<td>#1</td>
<td>The Jacobs School of Engineering at UC San Diego is the largest engineering school in California, and #2 on the West Coast, according to the latest enrollment data from ASEE.</td>
</tr>
<tr>
<td>9,617</td>
<td>Engineering Students (Fall 2022) 5,986 BS / 2,224 MS / 1,407 PhD</td>
</tr>
<tr>
<td>2,598</td>
<td>Engineering Degrees (2021-2022) 1,608 BS / 773 MS / 217 PhD</td>
</tr>
<tr>
<td>279</td>
<td>11 New faculty hired 2021-2022 150+ faculty hired in the last 9 years</td>
</tr>
</tbody>
</table>

We are transforming engineering education, at scale

How we do it

We empower one of the largest — and strongest — cohorts of students in the nation to apply engineering and computer science theory to real-world problems.
### 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: 28
- Undergraduates: 557
- Graduate students: 408

#### 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: 1,311
- Graduate students: 631

#### 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: 71
- Undergraduates: 1,873
- Graduate students: 980

#### NANOENGINEERING
- Advanced nanomaterials
- Computational materials science
- Nanobiotechnology
- Nanomanufacturing
- Nanomedicine
- Nanophotonics
- Nanorobotics
- Nanosensors
- Nanotechnologies for energy storage and conversion
- Stretchable, flexible electronics
- Sustainable nanotechnology
- Wearable devices

- Faculty: 29
- Undergraduates: 622
- Graduate students: 180

#### 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: 65
- Undergraduates: 1,374
- Graduate students: 938

#### 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
- Power engineering
- Signal/image/video processing
- Systems energy engineering
- Wearable sensors

- Faculty: 25
- Undergraduates: 547
- Graduate students: 173

#### 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: 547
- Graduate students: 173