

Points of Distinction

- **Arts and Humanities**
Home to a **top-ranked department of theatre and dance**, as well as a cutting-edge **music department with one of the acoustically finest small concert halls in the world**, the Division of Arts and Humanities invites the community to participate in the making of tomorrow's culture. **Two Pulitzer Prize winners are among the many decorated members of the faculty**. UC San Diego's preeminent Stuart Collection of site-specific sculpture tops off the unique offerings.
- **Biological Sciences**
Direct **evidence of how a cancer gene works** was achieved by UC San Diego biomedical researchers, including biology professor Russell Doolittle, who were the **first to show that a particular oncogene (gene known to cause cancer) matched a normal growth factor**; the study appeared in *Science* in 1984.
- **Extended Studies and Public Programs (Extension)**
In 1985 Extension took the leadership role in creating **CONNECT, the first innovation-business accelerator of its kind**, which since then has assisted in the formation of 3,000 companies in the San Diego region. The highly praised program has been modeled in more than 50 regions around the world. In 2006 to broaden its mandate to include public advocacy, **CONNECT** spun out to become a trade association with Extension as a member and sponsor.
- **Health—Clinical**
Surgeons at **UC San Diego Health have performed more pulmonary thromboendarterectomies (PTE)** – a lifesaving surgery to clear the lung's arteries of scar like tissue that robs patients of their ability to breathe – **than any other institution in the world. Pioneered in 1970 by Kenneth Moser and Stuart Jamieson**, the UC San Diego PTE program has a mortality rate of less than 1 percent for over 3,000 surgeries to date, the lowest known postoperative mortality rate worldwide.
- **Health—Academic**
Pioneering '**firsts**' include **finding that insulin resistance is a primary cause of Type II diabetes**, showing **the first associations between a lack of vitamin D and breast and other cancers** and creating the first functional neuron models of both Alzheimer's disease and autism spectrum disorder using induced pluripotent stem cells from patients. These "diseases-in-a-dish" promise unprecedented opportunities to more deeply probe the neurons' basic biology and function – and employ them as a tool for drug screening, diagnosis and personalized treatment.
- **Intercollegiate Athletics**
UC San Diego Athletics have won 30 national championships and have been ranked #1 in the National Collegiate Scouting Association's NCAA Division II Power Rankings for nine consecutive years for competitive accomplishment, academic prowess and student-athlete graduation rate.
- **Jacobs School of Engineering**
The Jacobs School of Engineering is **home to the world's first full-scale outdoor shake table**, designed to create realistic simulations of the most devastating earthquakes on record to advance seismic safety.

- ***Physical Sciences***

In 1963, **UC San Diego professor Maria Goeppert Mayer became the second woman in history to win a Nobel Prize in Physics.** The award recognized her work on the fundamental properties of atoms, specifically her development of the shell model of the atomic nucleus.

- ***Qualcomm Institute for Telecommunications and Information Technology***

The Qualcomm Institute (formerly called the UC San Diego division of the California Institute of Telecommunications and Information Technology or Calit2) demonstrated the **first real-time, trans-Pacific streaming of super high-definition 4K digital cinema-quality video** at 24 times the data rate of a standard broadcast TV signal.

- ***Rady School of Management***

In its first decade, the Rady School of Management **students and alumni have launched over 70 companies** that are operational today. The Rady School is at the nexus of UC San Diego's research, development and innovation — the school underlies the campus curriculum and academic model.

- ***Research Affairs***

The Office of Research Affairs **oversees the university's \$1 billion annual research enterprise,** helps guide 20 multidisciplinary Organized Research Units and ensures that UC San Diego research produces maximum scientific and societal impact.

- ***San Diego Supercomputer Center***

The San Diego Supercomputer Center at UC San Diego is home to **Gordon, one of the fastest supercomputers in the world,** with 4 petabytes of disk storage, 64 terabytes of random access memory and 300 terabytes of flash memory. Gordon has the ability to tackle the most vexing data-intensive challenges, from mapping genomes to creating ultra-detailed simulations of earth quakes.

- ***School of Global Policy and Strategy***

The UC San Diego School of Global Policy and Strategy (GPS,) addresses the great societal challenges of the 21st century. The school's pioneering research builds on internationally recognized expertise on the Americas and Asia, integrates analysis of public policy and markets, and explores global issues of conflict and cooperation. Through strong collaborations across the UC San Diego campus and counterparts around the globe, GPS shapes better solutions for a transforming world.

- ***School of Medicine***

San Diego's first biotechnology company, Hybritech, was started in 1979 by **UC San Diego School of Medicine professor Ivor Royston.** Since then, UC San Diego faculty, staff and alumni have spun off more than 200 active local companies, including many of the region's biotech and technology firms.

- ***Scripps Institution of Oceanography***

Scripps Institution of Oceanography climate scientist Charles David Keeling was the **first to confirm the buildup of carbon dioxide in the atmosphere.** His precise measurements, which he began calculating in 1958, produced a data set now known widely as the **"Keeling Curve," a benchmark of global warming studies.**

- ***Social Sciences***

Nearly 50 percent of all undergraduate degrees at UC San Diego are in the social sciences, and almost 500 community-based programs connect students and faculty in the division with schools, industry, local and state government, and nonprofit organizations. In 1986, UC San Diego established the world's **first cognitive science department,** which has become one of the leading centers of this field.

- ***Student Affairs***

UC San Diego is unique among other UC campuses—our university offers undergraduates the “small college” concept patterned after those at Cambridge and Oxford universities. Each of the **six undergraduate colleges** has its own residence halls, student services, traditions and even graduation ceremonies. While the undergraduates remain part of one university, they also develop a sense of identity within the smaller family of their chosen college.

- ***The Library***

UC San Diego’s **Geisel Library is the world’s largest repository of the original work of Theodor Geisel (Dr. Seuss)**, holding more than 10,000 original drawings, sketches, books and other memorabilia. The UC San Diego Library is recognized as a leader in digitization and digital preservation, and is collaborating with the Library of Congress and other partners in developing best practices for large-scale digital preservation.

- ***The Preuss School UCSD***

Recognized by *Newsweek* as the top transformative high school in the nation for three years in a row, The Preuss School UCSD is a **unique charter middle and high school for low income students who strive to become the first in their families to graduate from college**. Preuss graduates are consistently accepted to four-year colleges and universities at a rate of more than 90 percent, and almost 100 percent go on to some form of higher education.

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