The variety and depth of engineering programs at the California State University is as diverse as its 23 campuses, offering students practical knowledge and first-hand experience through the teaching and guidance of an expert faculty and staff. The following highlights demonstrate that, through its partnerships with the engineering industry, the CSU is working for California.

CSU Chico
The College of Engineering, Computer Science, and Construction Management at CSU Chico is home to five accredited undergraduate engineering programs: Civil, Computer, Electrical, Mechanical and Mechatronic Engineering. The college also has undergraduate programs in computer science, computer graphics, construction management and manufacturing technology. The college serves over 1,800 undergraduates and roughly 100 graduate students in computer science and electrical engineering. Chico graduates are among the most highly recruited in the West, with a noted reputation for a practice-oriented educational experience and for the team skills that they bring to the workplace and the state economy.

CSU East Bay
The Department of Engineering at CSU East Bay offers an undergraduate industrial engineering degree, two graduate certificate programs in quality and engineering management and will, pending CSU Office of the Chancellor approval, offer a graduate engineering management degree. The department takes pride in its commitment to strong student advising and delivering a rigorous applied industrial engineering education. Its capstone design projects partner student teams with seasoned professionals in industry. Project teams work to design improved systems and processes while considering practical constraints and ethical issues. CSU East Bay students have ample opportunities for internships, co-ops and employment in local industry. The industrial engineering program is accredited by the Accreditation Board for Engineering and Technology (ABET).

CSU Fullerton
The College of Engineering and Computer Science (ECS) at CSU Fullerton is part of a comprehensive, regional university with a global outlook. ECS has offered bachelor’s and master’s degree programs in civil engineering, computer science, electrical engineering and mechanical engineering for decades. Two new programs have been added to this mix: a bachelor’s degree program in computer engineering and an online master’s degree program in software engineering. Faculty research ranges from GPS navigation to water hazard mitigation. With its strong ties to industry, ECS is an integral part of the economic health of Orange County.

Humboldt State University
ABET-accredited since 1981, Humboldt State University’s Environmental Resources Engineering program is one of the oldest and largest undergraduate environmental engineering programs in the United States. The program is unique in its focus on renewable energy resources and ecological/watershed restoration. The curriculum includes many projects with hands-on field and laboratory experiences to enhance student learning. Student teams from Humboldt State consistently earn top honors in international competitions, most recently taking grand prize in the National Hydrogen Association’s 2005 student design competition and first place top honors in the 2003 Interdisciplinary Contest in Modeling contest sponsored by the Consortium for Mathematics and its Applications.
CSU Los Angeles
The College of Engineering, Computer Science, and Technology at CSU Los Angeles offers a hands-on curriculum and early research opportunities to prepare students for advanced studies and a fast-paced work environment. CSU Los Angeles’ NASA University Research Center is the first and only one of its kind in California, and the university features numerous state-of-the-art laboratories. CSU Los Angeles was first in the United States in the 2004 Society of Automotive Engineers’ Supercar Contest, first in California with the 2004 Mini Baja team, first in NASA’s 2003 student design competition, and first in the 2004 and 2005 WESTEC Manufacturing Challenges.

California Maritime Academy
The California Maritime Academy offers three ABET-accredited engineering programs: Facilities Engineering Technology, Marine Engineering Technology and Mechanical Engineering. While the focus and requirements of each degree program are unique, the fundamental principles and educational philosophies share common strategies and are based on a four-phased approach of intellectual learning, applied technology, leadership development and global awareness. Each student has the unique opportunity to put theory into reality during a two-month international training cruise onboard Cal Maritime’s Training Ship Golden Bear. During the voyage, skills and concepts learned in the classroom are put to the test as engineering students work in the ship’s engine room in the oversight and maintenance of its mechanical and power generating systems.

CSU Northridge
The College of Engineering and Computer Science at CSU Northridge is home to several nationally recognized programs where students gain valuable hands-on experience working alongside faculty members and industry professionals on cutting-edge research. Most recently, the college is celebrating a $20 million renovation of its facilities, which feature 50 state-of-the-art teaching and research laboratories that offer hands-on experience. By blending the practical application of the professions with a strong foundation in theory, the college has maintained a consistent following by alumni and friends from industry who value the career-oriented education that students receive throughout their course of study at the university.

Cal Poly Pomona
Boasting one of the largest undergraduate engineering enrollments in California and the largest civil engineering bachelor’s degree program nationwide, Cal Poly Pomona’s College of Engineering is ranked 14th in the nation in the Best Undergraduate Engineering Programs list according to U.S. News & World Report’s 2006 America’s Best Colleges. Through its polytechnic approach, the college has a well-earned reputation for putting theory into practice and for producing industry-ready engineers through its 12 disciplines for engineers and engineering technologists. The college’s 4,400 diverse student body trains on real-world projects, participates in local and national competitions, and studies in a learning-centered environment among industry-experienced faculty. One of every 14 engineers in California is a Cal Poly Pomona graduate.

CSU Sacramento
The Sacramento State College of Engineering and Computer Science offers undergraduate and graduate programs in civil engineering, computer engineering, computer science, construction management, electrical engineering, mechanical engineering and mechanical engineering technology. The college enrolls more than 2,500 students each year, and an average class size of only 25 means students really get to know their professors. Because Sacramento is home to many high-technology companies and government agencies, students have unique internship and part-time employment opportunities.

San Diego State University
San Diego State’s College of Engineering is nationally recognized for its academic disciplines, research projects and active students. With 1,800 undergraduates and 300 graduate students, the college is also known for its commitment to improving engineering education and diversity. The college is the state affiliate for Project Lead the Way, a national program supporting teaching pre-engineering and technology in middle and high school. Its acclaimed MESA (Mathematics, Engineering and Science Achievement) program and other on-campus student support and mentoring initiatives have attracted diverse students to San Diego State and helped them succeed after graduation. This year, Hispanic Business magazine ranked the college No. 4 in the nation for Hispanic students.
San Francisco State University
The School of Engineering at San Francisco State University strives to produce “Industry-Ready Engineers” who have a can-do attitude and a solid foundation of hands-on experience. The school offers degrees in six areas of specialty: bachelor’s degrees in civil engineering, computer engineering, electrical engineering and mechanical engineering; and master’s degrees in electrical and computer engineering and structural engineering. Faculty members focus on applied research and the integration of research into the learning experience. For example, the school’s Industrial Assessment Center project, funded by the U.S. Department of Energy, involves faculty and students in conducting no-cost energy, waste and productivity assessments for small- to medium-sized manufacturers.

San José State University
The College of Engineering at San José State University is a dynamic learning community in Silicon Valley that inspires and educates its students to develop cutting-edge engineering capabilities to contribute to the region’s leadership in technology innovation. Engineering programs offered include aerospace, aviation, chemical, civil, computer, electrical, environmental, general, industrial and systems, materials, mechanical, and technology. Hands-on laboratories, industry internships, access to business and technology leaders, scholarships, and special programs such as the college’s global Technology Initiative Asia-Study Tour enhance the learning experience. Students also have the unique opportunity to find employment with leading technology companies located in Silicon Valley.

Cal Poly San Luis Obispo
With close to 5,000 students, engineering is the largest of Cal Poly San Luis Obispo’s six colleges. U.S. News & World Report ranks Cal Poly San Luis Obispo’s College of Engineering as the No. 1 public program in the nation for schools whose highest degree is a bachelor’s or master’s. The college applies Cal Poly’s “learn by doing” philosophy, offering numerous laboratories to provide hands-on experience linking theory with practice. Students also participate in “real world” problem solving through co-ops and internships with industry and government, as well as the senior project capstone design experience. Accustomed to working in diverse, goal-oriented teams, graduates are much in demand, with 300 to 600 employers recruiting on campus each year.
The California State University System

Responsibility for the California State University system is vested in the CSU Board of Trustees, whose members are appointed by the governor. The trustees appoint the chancellor, who is the chief executive officer of the system, and the presidents, who are the chief executive officers on the respective campuses.

The California State University is vital to California’s economic prosperity. It is the nation’s largest, most diverse and most affordable four-year public university system, with approximately 400,000 students (more than 53 percent of whom are minority) and 42,000 faculty and staff. Stretching from Humboldt in the north to San Diego in the south, the CSU with 23 campuses and seven off-campus centers is renowned for the quality of its teaching and for its job-ready graduates.

The CSU offers more than 1,800 bachelor’s and master’s degree programs in some 240 subject areas. Recently, Governor Arnold Schwarzenegger signed legislation that authorizes the California State University to independently offer the Doctor of Education (Ed.D.) degree.

Each year, the CSU graduates nearly 82,000 students into California’s workforce, including the majority of the skilled workers in California’s critical industries such as engineering, agriculture, business, technology, media and computer science. In fact, it awards more than half of the bachelor’s degrees and a third of the master’s degrees granted in California. All total, since 1961, the CSU has awarded more than 2 million bachelor’s, master’s and joint doctoral degrees.