



ELECTRICAL ENGINEERING

In order to provide an outstanding education to over 1,100 undergraduate and graduate students, the department offers classroom instruction by highly qualified faculty, hands-on experience in industry-sponsored state-of-the-art laboratories, and internship opportunities. The EE department encourages students to acquire professional experience while taking classes. Some students work as instructional student assistants and/or teaching associates, while others intern in Silicon Valley firms.

Our undergraduate program prepares students to enter the electrical engineering profession or attain a graduate degree. Our curriculum covers essential theoretical and hands-on knowledge in semiconductor electronics, wireless communication, Internet technologies, image and signal processing, analog, digital and embedded systems, automatic control and robotics, power electronics and energy systems. Students will develop an understanding of science and mathematical fundamentals and electrical engineering principles, analysis and design.

Graduate students have opportunities to explore specialized areas of concentration, including analog electronics, digital and embedded systems, networking and communication, signal processing, machine learning, integrated circuit design and fabrication, autonomous controls, power electronics and energy storage systems.

Experiential Learning

At the Davidson College of Engineering, students will have the opportunity to apply theoretical knowledge to solve real-world problems.

Learn by Doing

At SJSU, you will work on project teams with state-of-the-art technology in hands-on lab environments to master practical engineering technical skills and the theoretical principles needed to succeed from your very first day on the job.

Accomplished Faculty

You will study with faculty who are dedicated to teaching and active engagement in cutting-edge applied research, scholarly activity and professional practice.

Industry Partners

You will have opportunities to participate with faculty and Silicon Valley industry partners on student projects, internships and applied research.

Campus Diversity

You will study and collaborate with students and faculty who have diverse backgrounds, experiences, perspectives and ideas.

Degrees Offered

BS Electrical Engineering
MS Electrical Engineering

The Davidson College of Engineering was ranked **#3** in the nation among the best public engineering programs offering bachelor's and master's degrees (excluding service academies) by *U.S. News & World Report* (2019).



“My career goal is to make human life better. I know I can do this because engineers directly affect human lives. Just like doctors have a direct impact on their patients, the work engineers do makes the world a better place through small-scale devices and large-scale infrastructure and technology projects. I am excited to learn more.”

— Syeda Rizvi, Junior, Electrical Engineering

Careers: What You'll Do

Electrical engineers work in offices, labs, industrial plants, private companies, transportation sectors, government agencies, and utility firms. They work with all kinds of electronic devices from microchips to supercomputers. Students graduating from the Electrical Engineering program are prepared to design, test and manufacture new devices, components and systems that use electricity to gather, process and transmit information for integrated circuits, computer systems, medical and scientific instruments, communication systems, radar and navigation systems, industrial machinery, energy storage systems, autonomous control systems, electric cars, and more.

Where You'll Work

Here in Silicon Valley and the San Francisco Bay Area, local companies hire more SJSU engineering, computer science and business graduates than from any other college or university. Whether you're searching for an internship, ready to enter the professional workforce or looking to take the next step up in your career, you'll find motivated recruiters at events like SJSU fairs. Here are some of the many Silicon Valley companies and organizations that hire our electrical engineering graduates:

Advanced Micro Devices, Apple, Arista Networks, Cisco Systems, Cypress Semiconductor, General Dynamics, Hitachi, Intel, Jabil, Juniper Networks, KLA-Tencor, Lam Research, Lattice Semiconductor, Marvell Semiconductor, Maxim, Qualcomm, Scality, Seagate, ServiceNow, SRI International, Supermicro, Synopsys, Texas Instruments, and Western Digital.

College Tuition and Expenses

SJSU is one of the most affordable public universities, providing a quality education at a reasonable cost. The university ranks among the 50 best college investments nationwide and third in California in terms of low tuition and high starting salaries. For current financial information, please visit www.sjsu.edu/finances.

About Our College

The Charles W. Davidson College of Engineering at San José State University is located in Silicon Valley, one of the most innovative regions in the world. Ideally positioned to address 21st-century challenges such as clean energy, smart transportation and cybersecurity, the Davidson College of Engineering receives high rankings among national undergraduate and graduate engineering programs for academic excellence from *U.S. News & World Report*.¹

Students choose the Davidson College of Engineering to experience our hands-on learning environments, applied research techniques and opportunities to master the engineering fundamentals and technical skills needed to solve real-world problems. Collaborating with faculty and industry partners, students actively prepare for professional engineering careers. Career-preparedness programs, workshops and seminars are also plentiful as co-curricular and extra-curricular activities.

The Davidson College of Engineering will prepare you for a rewarding career in the professional engineering field. When Silicon Valley companies search for top talent they recruit from SJSU.

Let's Talk About Your Future

We want to answer your questions and tell you more about the many advantages and opportunities you will experience at the Davidson College of Engineering at SJSU. Visit us online at ee.sjsu.edu.



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¹ The Davidson College of Engineering was ranked No. 3 in the nation among the best engineering programs offering bachelor's and master's degrees, excluding private and service universities, by *U.S. News & World Report* (2019). © 2019 San José State University. All rights reserved.