

CHARLES W. DAVIDSON COLLEGE OF ENGINEERING

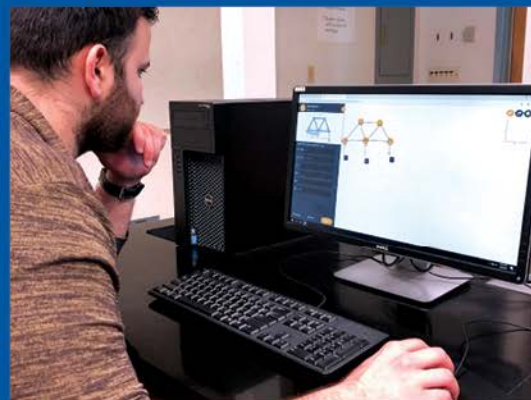
STRATEGIC PLAN



SJSU SAN JOSÉ STATE
UNIVERSITY

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CHARLES W. DAVIDSON
COLLEGE OF ENGINEERING
ONE WASHINGTON SQUARE
SAN JOSÉ, CA 95192-0080



<https://engineering.sjsu.edu>

Mission

Our mission is to enable our students to become socially responsible engineers and leaders in Silicon Valley and beyond through an accessible, world-class education.

Vision

We aspire to be:

an engineering school of choice for all students

a valued campus, industry, and community partner

and a trusted member of our local and global community

Values

STUDENT SUCCESS

Preparing students to be professional, lifelong learners, able to find success in all aspects of their lives

HANDS-ON LEARNING

Providing practical, hands-on learning opportunities in conjunction with engaging curricula and teaching approaches

INNOVATION

Fostering entrepreneurial and pioneering ideas, approaches, research, and scholarship

COLLABORATION

Encouraging interdisciplinary experiences within the College, across the University, and with our industry and community partners

DIVERSITY AND INCLUSION

Drawing on diverse backgrounds, experiences, perspectives, and ideas to support a global, inclusive mindset in teaching and learning

SOCIAL RESPONSIBILITY

Placing a high value on ethics, global awareness, and community service

#3

U.S. News & World Report

Third in the nation among public engineering programs offering bachelor's and master's degrees, excluding service academies, 2019

San José State University

San José State University is situated in the entrepreneurial heart of Silicon Valley, one of the most innovative regions in the world. Named as one of the four most transformative universities in the country, San José State has been meeting the evolving needs of the community for more than 160 years.

The Charles W. Davidson College of Engineering at San José State began modestly in 1946 with initial programs designed to support construction, manufacturing, and food processing. Today, this vibrant college community has grown to nearly 400 faculty and staff supporting more than 7,000 local and international students. Together they lead the charge towards addressing real-world, global challenges such as designing smart cities, reenvisioning transportation, securing cyberspace, facilitating space technology research, engineering intelligent medicines, and providing practical solutions to underserved populations.

The Davidson College of Engineering prepares graduates from all walks of life to be career-ready collaborative team players with a strong sense of cultural awareness and social responsibility. The college launches more graduates into Silicon Valley careers than any other college or university. With its hands-on learning environments, applied research opportunities, and interdisciplinary projects with industry professionals, the Davidson College of Engineering continues to earn top rankings among national public engineering programs. Our students are, indeed, the right engineers in the right place, at the right time.

#4 **MONEY.com**
Most Transformative
College, 2017

#8 **Market Watch**
Silicon Valley hires most graduates from this
college and SV hires most grads from these
10 NON Ivy League Universities, 2017

#1 **College Vine**
Ranked #1
Underrated
College, 2018

PRIORITY AREAS

Innovative and Experiential Learning

The Davidson College of Engineering is committed to providing students with relevant, diverse, hands-on learning experiences that foster a passion for lifelong learning and allow them to apply their knowledge in real-world settings. Through innovative and engaging courses and teaching methodologies, interdisciplinary projects, service learning, research opportunities, global experiences, internships, and more, our students are prepared to succeed in the classroom, and in their chosen careers.

- Increase opportunities for interdisciplinary learning experiences
- Increase hands-on learning opportunities with industry and community partners
- Increase faculty and staff expertise in instructional technology and pedagogy



Research and Scholarly Activity

Research and scholarly activity contributes to Silicon Valley's technical leadership, attracts world-class faculty, and provides unique academic experiences for our students. At the Davidson College of Engineering we are creating a thriving and supportive environment for these pursuits which enables our students and faculty to further expand their knowledge and contribute to the betterment of society.

- Provide opportunities, incentives, and support infrastructure for faculty research
- Encourage and support student participation in and student-initiated research
- Support and promote interdisciplinary and collaborative research opportunities at both the undergraduate and graduate levels



Student Experience and Success

Providing an exceptional student experience and ensuring our students' overall success is central to everything we do at the Davidson College of Engineering. We believe that the best way to prepare students to be professional, lifelong learners is by taking a holistic approach. This involves academic, personal, and professional support and giving students access to the tools, resources, and facilities that will allow them to thrive.

- Improve retention and graduation rates
- Improve career preparation through curricular and co-curricular activities
- Update learning spaces (e.g., classrooms, labs) to better promote collaboration and experiential learning



Industry and Community Partnerships

Located in the heart of Silicon Valley, the Davidson College of Engineering is in a unique position to build relationships with and give students access to some of the most forward-thinking companies in the world. We are committed to furthering our existing relationships to form mutually-beneficial industry and community partnerships, establishing the College as a valued university partner for Silicon Valley, and being a school of choice for all students.

- Establish robust corporate extended studies programs
- Create collaborative and mutually beneficial community and industry partnerships
- Create infrastructure to support entrepreneurship in the College of Engineering
- Foster an engaged alumni community



To view the detailed plan please visit:

<https://engineering.sjsu.edu/strategic-plan>