SJSU SAN JOSÉ STATE UNIVERSITY

Transforming Silicon Valley

Engineering at San José State University

Celebrating over 75 years of History and Innovation

BEST COLLEGES
U.S.News
ENGINEERING PROGRAMS
2023

Top ranked in U.S Colleges with "Best Return on Investment"
(Best Colleges)

#3

Charles W. Davidson College of Engineering
#3 in Public Engineering Programs

SJSU's Concrete Canoe team, made up of over 25 students from seven engineering disciplines, spend a year designing, constructing, finishing and then racing their canoe in the annual competition.

A Unique Learning Environment in the Heart of Silicon Valley

#1

#1 alumni employment at Cisco and Apple
The Davidson College of Engineering is the largest contributor to the Silicon Valley workforce.

$4 million

in research grants to Engineering Faculty and students **from National Science Foundation, NASA and private IT industry.**

29
Bachelor's and Master's Degree Programs in 15 disciplines
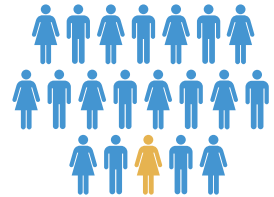
65
More than 65 student organizations

31,800

31,800 engineering students have graduated from The Davidson College of Engineering in the last 70 years **95% of graduates stay, live and work in Silicon Valley**

Student Enrollment

The Davidson College of Engineering is one of the largest engineering programs in California (2022).

7,400 Students enrolled

5,000 Undergraduate students

2,400 Graduate students

20:1 Student / Faculty ratio

Silicon Valley CEOs, founders and SVPs routinely share their experience with students at lunchtime lectures as part of the **Silicon Valley Leaders Symposium**.

11% growth

249,908 new jobs will be available for engineers with San José being one of the top metropolitan areas for the greatest demand for engineers.* (2023)

Before joining the engineering Faculty at San José State University, Dr. Oh worked as a research scientist at IBM and earned her Ph.D in Materials Science and Engineering from MIT in Cambridge, Massachusetts.

Assistant Professor Dahyun Oh with students in the Energy Materials Lab on campus.

*Credit: Kelly Services

ACCOMPLISHED FACULTY

Our award-winning faculty is committed to each student's success. With accolades like CAREER Award from National Science Foundation (NSF), Dean's Service Awards etc., their expertise is recognized in academia and beyond.
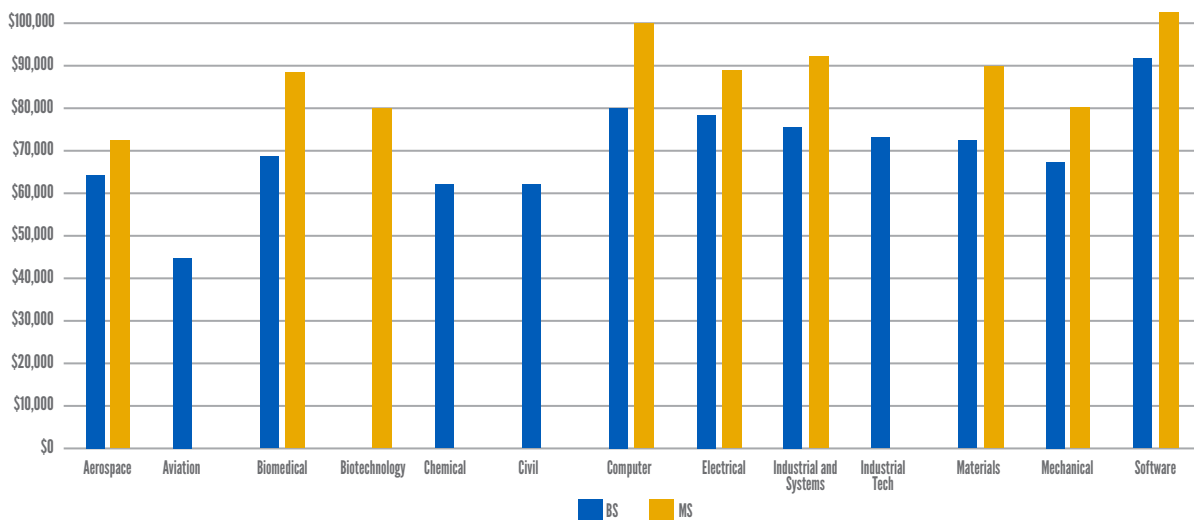
LEARN BY DOING

SJSU's well-rounded curriculum and competitions like Silicon Valley Innovation Challenge, ensure that students are at the forefront of groundbreaking research and innovation and are able to seamlessly transition into leadership and organizational roles.

INDUSTRY PARTNERS

With SJSU students securing internships and job opportunities in Fortune 500 companies, it is uniquely positioned to connect you with the thousands of tech and life sciences firms located in the heart of Silicon Valley.

Engineering Salaries by Degree

Average salaries for **Charles Davidson College of Engineering** graduates entering professional engineering positions.

Legend: ■ BS ■ MS

#1

Public University in
California with the most
graduates at Silicon
Valley companies
(Business Insider)

TOP 10

Top Ten for 13 Years
(Forbes America Top Colleges)

#1

San José, California #1 city
with the most job opportunities
for college grads
(Microsoft Start Blog- MSN)

#4 Public Universities
in the West
(U.S. News &
World Report 2023)

Join the Powerhouse of Tech Talent
Top companies that recruit from SJSJ

Cisco

Apple

Google

Meta

IBM

Hewlett Packard

Oracle

Intel

Microsoft

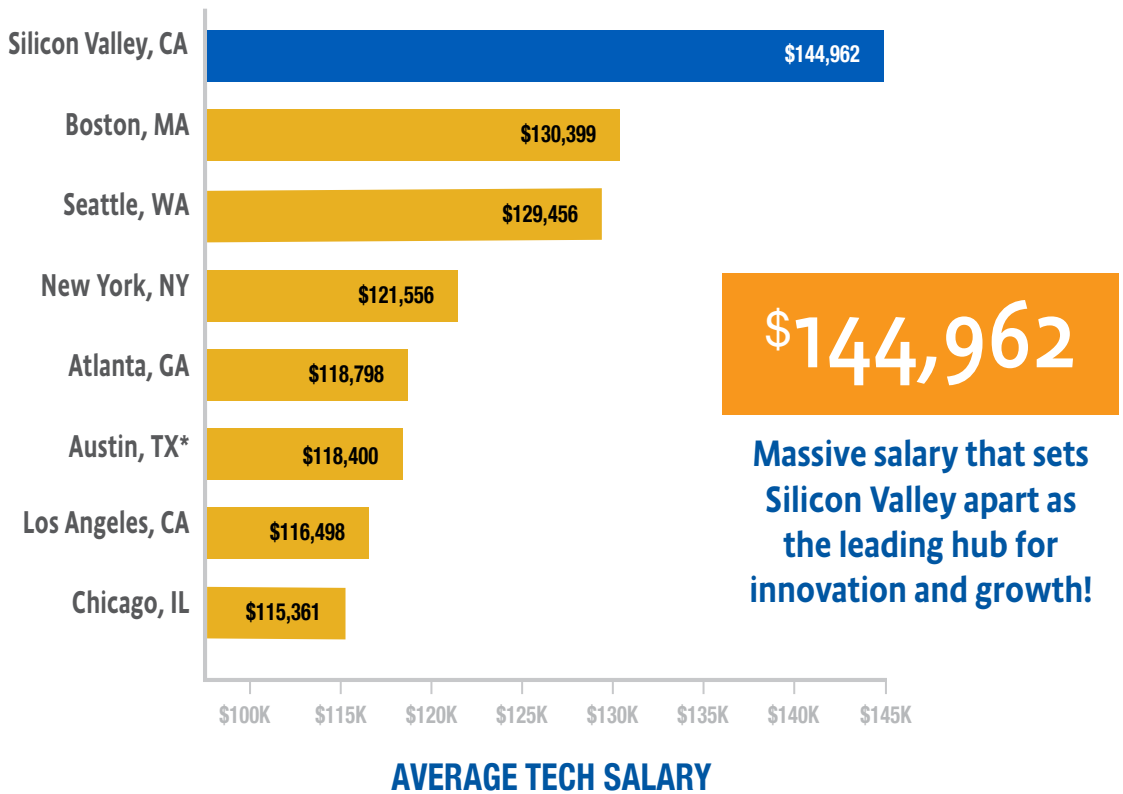Applied Materials

Adobe

Tesla

Ebay

Amazon/AWS

57,000+

SJSU alumni are
shaping the future of leading
Silicon Valley companies

Make it Big in the Tech World
SJSU Engineers are the most highly valued

Location	Average Tech Salary
Silicon Valley, CA	$144,962
Boston, MA	$130,399
Seattle, WA	$129,456
New York, NY	$121,556
Atlanta, GA	$118,798
Austin, TX*	$118,400
Los Angeles, CA	$116,498
Chicago, IL	$115,361

AVERAGE TECH SALARY

$144,962

Massive salary that sets Silicon Valley apart as the leading hub for innovation and growth!

Engineering Student Success Center: ESSC

To ensure a rewarding and successful student experience, Engineering Student Success Center (ESSC) offers resources to empower students from application to graduation, support their academic and personal growth and ensure a seamless transition to college. Whether it's assisting with:

• undergraduate and graduate tutoring and research advising

• peer advising and counseling

• career advising and mentoring

ESSC is committed to each student's success!

SpartUp Innovation

SpartUp Incubator: Office of Innovation

SJSU's in-house incubator offers mentorship, real-world connections, and a collaborative ecosystem throughout the startup journey. It guides spartans in

- How to find and develop ideas
- How to build and test prototypes
- How to scale your startup and find customers
- How to pitch to investors and idea, plan, prototype, raise funds etc.

On May 5th, Spart-up Innovation hosted 18 of the 23 California State University campuses at the Sun-Stone CSU Start-up Launch Competition and SJSU students secured one of the top places.

Silicon Valley Innovation Challenge (SVIC)

Judged by Silicon Valley industry experts and venture capitalists, this annual business plan competition nurtures students and entrepreneurs.

It provides them with hands-on training and resources to not only develop innovative ideas and products but also pitch those ideas using various marketing strategies.

Student Ideas Lab

This student-led coworking space helps move research discoveries from the lab to the market offers:

- a collaborative and innovative milieu
- state-of-the art technology i.e. 3D printers, prototyping equipment etc.
- wide network of experienced professionals

Degree Programs

Aerospace Engineering ■ ❖   BS, MS
- Aircraft and Spacecraft Design
- Advanced Space Systems Engineering

Artificial Intelligence ■ ❖   MS

Aviation   BS
- Aviation Management
- Engineering Technology
- Maintenace Management
- Operations
- Professional Flight

Biomedical Engineering ❖   BS, MS

Chemical Engineering   BS, MS
- Biotechnology
- Environmental Engineering
- Semiconductors and Polymers Processing

Civil Engineering ■   BS, MS
- Construction Management
- Environmental
- Geotechnical
- Structural
- Transportation
- Water Resources

Computer Engineering ■ ❖   BS, MS
- Embedded Systems
- Networking Systems
- Secure Systems
- System Design

Electrical Engineering ■ ❖   BS, MS
- Analog Electronics
- Digital Signal Processing
- Digital System Design
- Integrated Circuit Design and Fabrication
- Networking and Communications
- Power Electronics

Extended Studies   MS
- Artificial Intelligence
- Software Engineering, Specialization in Cloud and Mobile Computing
- Software Engineering, Specialization in Data Science
- Engineering, Specialization in Smart Sustainable Energy Systems
- Software Engineering, Specialization in Enterprise Technologies
- Corporate-specific engineering programs also available

Interdisciplinary Engineering ■   MS

Human Factors/ Ergonomics   MS

General Engineering
- Electronic Materials and Devices
- Green Technologies Minor

Industrial and Systems Engineering ❖   MS
- Engineering Management
- Statistical Quality Engineering

Engineering Healthcare   BS, MS, MSE

Industrial Engineering
- Human Factors and Ergonomics
- Production and Quality Assurance
- Service Systems Engineering
- Supply Chain Engineering
- System and Information and Modeling

Industrial Technology   BS
- Computer Electronics and Network Technology
- Manufacturing Systems and Sustainable and Green Manufacturing

Materials Engineering ■   BS, MS
- Biomaterials
- Composites
- Electronic and Magnetic Materials
- MEMS
- Microelectronic Packaging
- Nanotechnology
- Polymers
- Semiconductor Processing

Mechanical Engineering ■ ❖   BS, MS
- Finite Element Analysis and CAD
- Mechanical Design
- Mechatronics and MEMS

Software Engineering ■ ❖   BS, MS
- Cloud Computing and Virtualization
- Cybersecurity
- Enterprise Software Technologies
- Networking Software
- Software Systems Engineering

Quantum Technology   MS

■ Highly Competitive
❖ GRE/GMAT required

Admission Requirements

Complete application at calstate.edu/apply

Minimum GPA 2.5 out of 4. Please check Degree Program Requirements | Admissions (sjsu.edu) and sjsu.edu/admissions/impaction for details.

Transcripts: international evaluation (WES/ ACEI/ ECE) of atleast 7 semester transcripts

Test	Undergrad	Grad
TOEFL	80	80
IELTS	6.5	6.5
PTE	44	53
Duolingo	95	Not accepted

Students must meet minimum English Proficiency requirements. For more information visit: study.sjsu.edu/language-requirement

Your Future Starts Here

"Working on campus as a student assistant in the Data Science team at CPGE has been incredible. It not only enriched my college experience by providing me with invaluable work experience and networking opportunities but also helped me offset the cost of tuition."

— **Mansi Gupta**
M.S. Engineering Management

"SJSU has truly become my second home- a place where I have found lifelong friends and mentors. SJSU's proximity to the Tech industry has also opened doors to countless opportunities for me. Just yesterday, I had the privilege of networking with over 30 CEOs at a conference."

— **Nithin Reddy**
M.S. Electrical Engineering

Connect with Us
sjsu.edu/global
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Drop in session