

Increasing the Competitiveness of the Research Enterprise in Comprehensive Institutions



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San José State
UNIVERSITY



SACRAMENTO STATE



CAL POLY

CSU The California
State University

ExLibris
a ProQuest Company

SAN JOSÉ STATE UNIVERSITY

Research and Innovation

Dr. Mohamed Abousalem
Vice President for Research and Innovation

#1 MOST
TRANSFORMATIVE
UNIVERSITY

—Money magazine



About SJSU

Started as the first State Normal School, training teachers—all women.

Comprehensive education, granting bachelor's, master's and doctoral degrees in 250 areas of study.

Essential partner in the economic, cultural and social development of Silicon Valley and California.

1857

Our Founding

1st

Public University
in the West

23

CSU Campuses

36k+

Enrollment

9

Colleges

8.9k+

Degrees Granted
(2019-2020)

22

Athletic Teams

275k+

Alumni

3.7k+

Employees



SJSU Rankings

#1

**Most
Transformative
University⁺**

#15

**Best Public
Colleges⁺**

#24

**Best
Colleges⁺**

#3

**Top Performers in
Social Mobility^{*}**

#7

**Top Public
School^{*}**

#8

**Most Innovative
School^{*}**

#3

Best Public Undergraduate Engineering Program^{}**

⁺MONEY MAGAZINE (2020), National Ranking

^{*}U.S. NEWS AND WORLD REPORT (2021), Regional Rankings (West)

^{**}U.S. NEWS AND WORLD REPORT (2021), National Ranking



SJSU Students

SJSU diverse students discover what inspires them through a breadth of majors, unique programs and opportunities for research.

27.7k+

Undergraduate Students

8.1k+

Graduate Students

9.4k+

First-Year/Transfer Students

28%

First Generation Students

2.5k+

International Students

300

Students Involved in Research

34%

Asian

28%

Hispanic

15%

White



SJSU Research

Our 2,120 faculty members combine their research, scholarship and creative activity with industry or practical experience—incubating a problem-solving mindset for highest public impact.

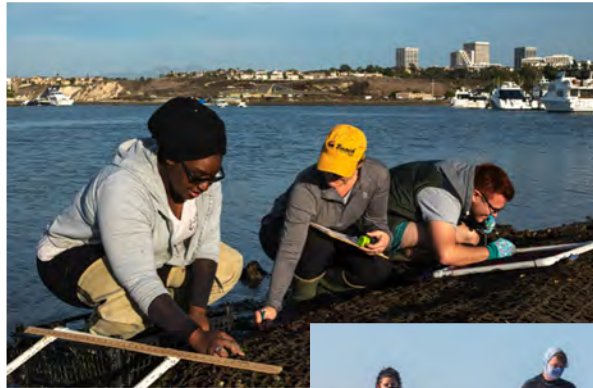
\$58M Annual Research Expenditures

232 Awards received valued at \$57M

303 Proposals submitted valued at \$100M



SJSU Research Highlights



Marine Science



NASA Human Factors



Wildfire Research





SJSU Research & Innovation Growth Goals

Increase the opportunities and resources for our researchers to further enrich the learning experience of our students and support the career growth of our faculty through public impact research.

Annual Research Expenditures X 2

Grant Award Success Rate ↑

Institutional Capacity & Readiness ↑

Multi-Disciplinary & Multi-Institutional Research ↑

Build and Grow the SJSU Innovation Enterprise



SACRAMENTO
STATE

California State University - Sacramento

"The Capitol University"

Dr. Yvonne Harris
Associate Vice President
Research, Innovation and Economic Development



SACRAMENTO
STATE



The Planetarium –

Features a 2,500 Sq. Ft. Dome. Observatory with a retractable roof.

More than 80 Seats. Serves as a lecture hall and presents shows to local schools and the general public

About CSUS

“Tree Campus USA” officially named by The Arbor Day Foundation in 2012



8 Colleges:

Total Enrollment: 31,156 students

Total Employees: 7,500+

Total Degrees: 8,401 (2018-2019)

All Faculty: 3,782

2019 Graduates: 9,320 students

**1 of 23
Campuses**

**Founded
in 1947**

**250k +
Alumni**

**1 of 23
Campuses**

**Serves 6
Counties**

**6 Miles
from State
Capital**

Degree Programs:

64 Bachelors

51 Masters

5 Doctoral



SACRAMENTO
STATE



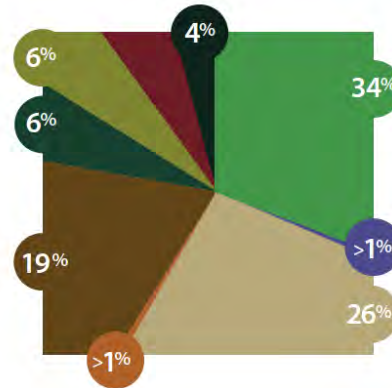
Ernest E. Tschannen
Science Complex opened
on the Sacramento State
campus in Fall 2019.

College of Natural
Sciences and
Mathematics

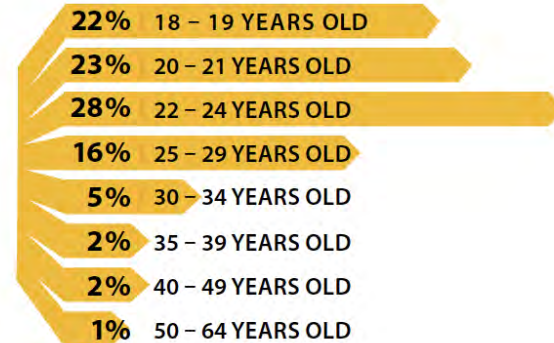
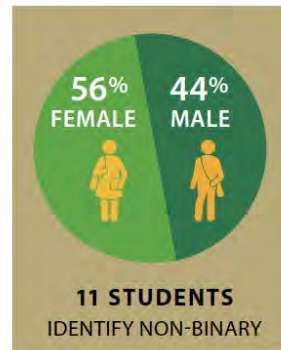
About CSUS

"2nd Most Diverse University in the West"
– U.S. News and World Report

Student Demographics



34% HISPANIC
26% WHITE
19% ASIAN AMERICAN
6% AFRICAN AMERICAN
6% OTHER/MULTIRACIAL
4% UNKNOWN
4% NON-RESIDENT ALIEN
>1% PACIFIC ISLANDER
>1% AMERICAN INDIAN



DEMOGRAPHICS ARE BASED ON FALL 2019 STUDENT ENROLLMENT DATA.



SACRAMENTO
STATE



Sacramento State
Chemistry Professor
Katherine McReynolds
and a team of researchers
demonstrated that
therapeutic agents that
appear to block
transmission of HIV might
also work on COVID-19
virus.

About CSUS

*"Tree Campus USA" officially named by The Arbor Day
Foundation in 2012*

Funded Research (2019-2020):

Awards Received:	\$26M +
Total Project Expenditures:	\$31M +

Number of Awards Received:	136 (Increase)
Number of Sponsors:	86 (Increase)
Number Faculty/Staff Awarded:	77 (Increase)

Types of Projects Funded:	Basic Research
	Applied Research
	Developmental Research
	Training
	Curriculum Development
	Equipment
	Student Support

California Polytechnic State University, San Luis Obispo

Dr. Elizabeth A. Lowham
Interim Dean of Graduate Education
Research, Economic Development & Graduate Education
(R-EDGE)



CAL POLY

About Cal Poly

Enrollment
21,477 ↑
undergraduates
840 ↑
State-side postbaccalaureate
Based on F2020 Enrollment

Top Public,
Master's Level
University in
West, 28yrs
No. 1
US News & World Report

Degrees
Awarded, 19-20
5167 ↑
bachelors
522 ↓
masters

6 Colleges
Degrees
65+ undergraduate
35+ masters
1,428 Faculty

Cal Poly is in tiłhini, the Place of the Full Moon. We gratefully acknowledge, respect, and thank yak tityu tityu yak tiłhini, Northern Chumash Tribe of San Luis Obispo County and Region, in whose homelands we are guests.

Cal Poly Students

- Between 700-800 students involved in F2F research in F2020
- 500-600 undergraduates involved in paid Summer Research Programs, primarily not grant-funded



POLY VIEW / FALL 2020 SAN LUIS OBISPO, CALIFORNIA

ETHNIC ORIGIN



AFRICAN AMERICAN	171 (0.77%)
HISPANIC/LATINO	4,077 (18.33%)
NATIVE AMERICAN	27 (0.12%)
NON-RESIDENT ALIEN	475 (2.14%)
UNKNOWN/OTHER	787 (3.54%)
ASIAN AMERICAN	2,965 (13.33%)
MULTIRACIAL	1,718 (7.73%)
WHITE	12,019 (54.04%)

Note: Ethnic origin is self-reported

Increase in Underrepresented Minorities (URM)

Increase from 2019 (21.1%) to 2020 (21.7%)

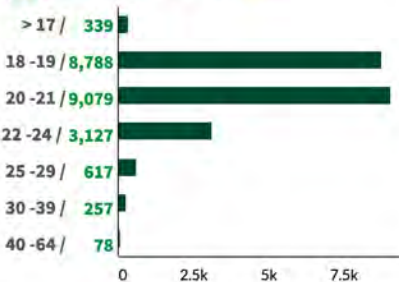
↑ 0.6%

Increase from 2018 (20.5%) to 2019 (21.1%)

↑ 0.6%

Underrepresented minorities (URM) include students who self-report their race/ethnicity as Hispanic, Native American, African American, Hawaiian/Pacific Islander, or multiracial. Including at least one of those four groups.

AVERAGE AGE / 20.4



GENDER

6.4% Increase in women from last year

11,345

Men
(50.90%)

10,937

Women
(49.07%)

While not represented in the above numbers, five (5) students reported non-binary gender.

Research, Scholarship and Creative Activity, 19-20

Submitted	Awarded	Expenditures	Sources
439 proposals \$197.8m	330 awards \$44.5m	494 projects \$24.2m	46% Federal 21% State 16% Not for profit 9% For profit

Research Enterprise | Goals



Focus the research, scholarship and creative activities enterprise on the grant challenges/big ideas that promise to transform Cal Poly, student engagement, the greater community, and the Central Coast with applications to communities beyond



Strengthen and expand RSCA enterprise and general sponsored programs to meet the need of the Cal Poly community



Optimize personnel development and operational processes



Support and promote economic development efforts of the Office of the President, the greater community, and Central Coast

Questions



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Thank You



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