SJSU Research Foundation
2026 Annual Report

SAN JOSE STATE UNIVERSITY
DIVISION OF RESEARCH AND INNOVATION

San José State University Research Foundation 2026 Annual Report

Published by:
San José State University Research Foundation
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Muwekma Ohlone SJSU Area Land Acknowledgement

The San José State University community recognizes that the present-day Muwekma Ohlone Tribe, with an enrolled Bureau of Indian Affairs documented membership of over 550, is comprised of all of the known surviving American Indian lineages aboriginal to the San Francisco Bay region who trace their ancestry through the Missions Santa Clara, San José, and Dolores, during the advent of the Hispano-European empire into Alta California; and who are the successors and living members of the sovereign, historic, previously Federally Recognized Verona Band of Alameda County.

Furthermore, the San José State University community recognizes that the university is established within the Thámien Ohlone-speaking tribal ethnohistoric territory, which, based upon the unratified federal treaties of 1851-1852, includes the unceded ancestral lands of the Muwekma Ohlone Tribe of the San Francisco Bay Area. Some of the enrolled Muwekma lineages are descended from direct ancestors from the Thámien Ohlone tribal territory, whose ancestors had affiliation with Mission Santa Clara.

The San José State University community also recognizes the importance of this land to the indigenous Muwekma Ohlone people of this region, and consistent with our principles of community and diversity, strives to be good stewards on behalf of the Muwekma Ohlone Tribe whose land we occupy.

Visit
sjsu.edu/diversity/land-acknowledgement
to learn more about the Muwekma Ohlone Tribe.

Disclaimer on Data Scope

The numbers and statistics presented in this report are limited to the activity managed by the San José State University Research Foundation and do not represent the overall research expenditures of the larger institution, as some programs are funded directly by the institution or through the Tower Foundation.

Disclaimer on Award Activity and Sponsored Expenditures

The annual report also reflects award activity or gross sponsor commitments recorded in the fiscal year. The audited financial statements reflect expenditures for the fiscal year sponsored awards. In many cases, expenditures are actually lower than the award activity because of multi-year awards, which are recorded in their entirety when received but expended over multiple years.

AI-Generated Content Statement

SJSU, like many universities, is actively exploring the use of AI-generated content and the ethical questions it raises. We've included AI-generated articles and text in this report, created using university-provided software that meets the privacy and safety requirements of campus Information Technology and the California State University.

Sidra Hassan, '27, Stem Cell Biology, participates in the Stem Cell Internships in Laboratory-based Learning program, where students build expertise through intensive laboratory training with stem cell models and progress to full-time, paid research internships at academic and biotechnology labs across Northern California. The two-year program prepares graduate students for careers in regenerative medicine and the biotechnology workforce. **Learn more on page 15.**

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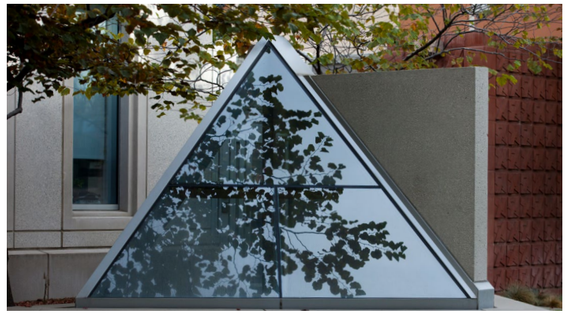
ABOUT

The San José State University Research Foundation is a non-profit 501(c)(3) California corporation that operates solely for the benefit of San José State University. It is an “auxiliary” of San José State University.

Auxiliary organizations at the California State University (CSU) are nonprofit organizations and separate legal entities. They operate pursuant to written operating agreements with the CSU Board of Trustees, have separate governing boards with close connections to a campus, and follow all legal and policy rules established by the CSU system and the respective campus administration.

Auxiliary organizations were created to perform essential functions associated with a post-secondary educational institution, which under California law were difficult, cumbersome, or legally restricted for the university and were not supported by state funding.

The entire team at the SJSU Research Foundation continues to be inspired by the endeavors and accomplishments of SJSU researchers. We are committed to supporting their efforts through our dedication to providing streamlined, robust, and efficient research administration and intellectual property services.



MESSAGE FROM LEADERSHIP

Marc d’Alarcao

President
SJSU Research Foundation
Board of Directors

Interim Vice President
Research and Innovation
San José State University

Dean
College of Graduate Studies
San José State University

Jessica Trask

Vice President
SJSU Research Foundation
Board of Directors

Associate Vice President
Research
San José State University

Andrew Exner

Executive Director
SJSU Research Foundation

Interim Director
Innovation & Corporate Partnerships
San José State University

Board Secretary
SJSU Research Foundation
Board of Directors

Purpose, Progress, and Impact: 2026 Leadership Message

Evaluating our reach and the impact of our work

The San José State University Research Foundation continued its strong trajectory of growth and impact during the **2024–2025 fiscal year**. We are pleased to report that the Research Foundation recorded more than **$111 million in awarded research funding**, reflecting the sustained momentum, creativity, and dedication of our faculty, staff, and students.

During the fiscal year, researchers secured **253 new awards** and submitted **347 proposals**. These efforts span a wide range of disciplines and address pressing challenges across **science, engineering, health, technology, education, and the arts**. Together, they reinforce SJSU’s role as a vital research partner in Silicon Valley and beyond.

Research activity also translated into meaningful operational growth during the fiscal year. **Total expenditures on sponsored activities exceeded $78 million across 568 active projects, supporting engagement by 288 faculty members, 769 students, and 413 project staff**. These projects reflect the dedication of principal investigators who have successfully competed for external support from federal, state, local, industry, and nonprofit sponsors. Through its role in providing indirect support for sponsored projects, **the Research Foundation continues to streamline research administration, compliance, and project oversight, returning $3.87 million in indirect revenue to San José State University** to help offset a small amount of the growing costs necessary to operate an R2 institution and sustain essential research infrastructure.

Looking ahead, our commitment remains firm: **expanding research, deepening partnerships, and empowering the people behind the breakthroughs**. This year’s success proves that research is more than discovery — it is a promise of measurable impact and responsible stewardship for the public we serve. **Our deepest thanks go to the researchers, partners, and supporters whose vision and dedication drive us forward**.

We appreciate your unwavering support of this vital mission.

SJSU SAN JOSÉ STATE UNIVERSITY

NATIONAL RANKINGS AND RECOGNITION

WALL STREET JOURNAL (2026)

#5 public university in the nation

#14 among public universities for post-graduation salaries

#24 for social mobility

#41 for best value in the nation

MONEY MAGAZINE (2025)

Best Public Colleges - 5 Stars Received

★★★★★

U.S. NEWS (2026)

#4 Regional Universities West

#3 Top Public Schools

#9 Best Value Schools

#3 Colleges for Veterans

#13 Social Mobility - Regional Universities West

#135 Nursing

#21 Undergraduate Engineering - Non-Doctoral

F1 HIRE (2025)

#1 Career Outcomes for International Students

CODESIGNAL (2025)

#9 University in the Nation for Coding

SJSU SAN JOSÉ STATE UNIVERSITY

NATIONAL RANKINGS AND RECOGNITION

SUSTAINABILITY - NATIONAL AND INTERNATIONAL RANKINGS

#6 Among Master's Institutions - Top Performers List — 2023

Association for the Advancement of Sustainability in Higher Education (AASHE)

Recognizes top-performing colleges and universities overall by institution type and in 17 sustainability impact areas.

Score of 99 (the highest possible score) in the Princeton Review 2026 Green Honor Roll.

Gold Rating

Sustainability Tracking, Assessment and Rating System (STARS)

A program of AASHE, valid from 2024 to 2027.

LEED Gold Certification — 2024

United States Green Buildings Council

Awarded to the Interdisciplinary Science Building.

TIMES HIGHER EDUCATION, 2021

Top 10 in the U.S.: Life Below Water

How "universities are protecting and enhancing aquatic ecosystems like lakes, ponds, streams, wetlands, rivers, estuaries and the open ocean."

Top 15 in the U.S.: Peace, Justice and Strong Institutions

Focusing on "universities' research on law and international relations, their participation as advisers for government and their policies on academic freedom."

Top 25 in the U.S.: Sustainable Cities and Communities

Highlighting the "interaction between universities and their communities, urban and rural" and how higher education institutions must "act as custodians of heritage and environment in their communities, a sustainable community must have access to its history and culture in order to thrive."

SJSU RESEARCH STRENGTHS

San José State University, recognized as one of the nation's top public universities — **#5** in the country and **#17** overall in the Wall Street Journal/College Pulse 2026 rankings — and holding **#3** status for Top Public Schools in the West by U.S. News & World Report (2026), organizes its research strengths into the following six areas.

Emerging Technology

- Artificial Intelligence
- Machine Learning
- Air and Space
- Robotics
- Semiconductors
- Quantum Technology
- Cybersecurity and Networks

Climate Resilience

- Land and Water Studies
- Energy
- Wildfire
- Mariculture
- Species Health
- Environmental Resilience

Health and Well-Being

- Biotechnology
- Drug Discovery
- Biomedical Engineering
- Health Disparities
- Evolved Caregiving
- Mental, Behavioral Health

SJSU | RESEARCH FOUNDATION

#5 PUBLIC UNIVERSITY IN THE NATION

WALL STREET JOURNAL | COLLEGE PULSE 2026

Human Factors

- Human Interaction with Technology: Behavioral Impact on Space Exploration, Earthside Integrations

Social Justice

- Inclusive Libraries
- Cultural Studies in Action
- Learning and Development
- Emancipatory Education
- Mass Incarceration

Urban Futures

- Ethical Technology
- Transit and Urban Planning
- Civic Humanities
- Public Arts
- Public Policy
- Financial Studies

NUMBERS AND METRICS

SJSU Research Foundation numbers for
Fiscal Year 2024-25, which ended on June 30th, 2025

288 SJSU **Faculty**

769 SJSU **Students**

413 SJSU **Project Staff**

engaged in sponsored research projects, grants, or contracts, managed by the Research Foundation.

253 Awards
received valued at more than **$111 MILLION.**

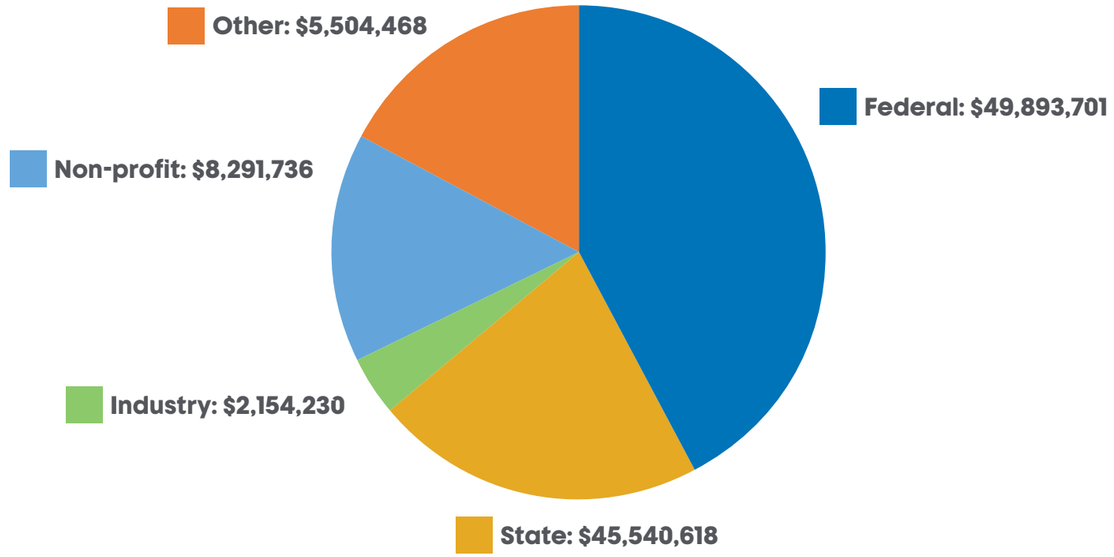
347 Proposals
submitted valued at more than **$236 MILLION (247 FACULTY).**

$78 Million
of total expenditures on sponsored activities across 568 active projects.

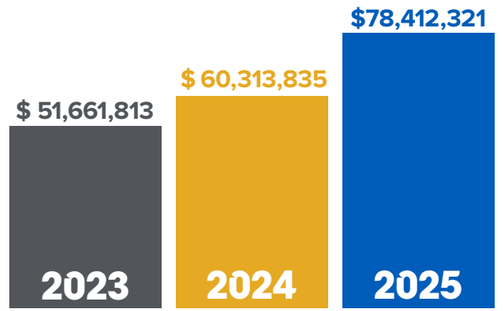
$3.87 Million
returned to San José State University in indirect revenue.

FISCAL YEAR 2024-2025 AWARDS

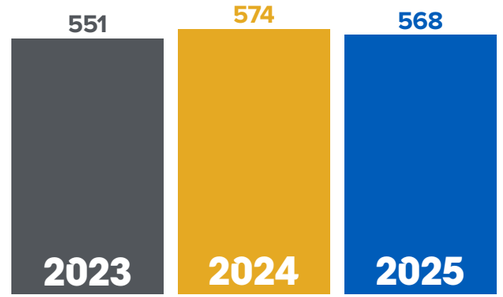
Total Dollars of Awards Received: $111,384,753



Sponsored Activities Expenditures



Number of Active Awards



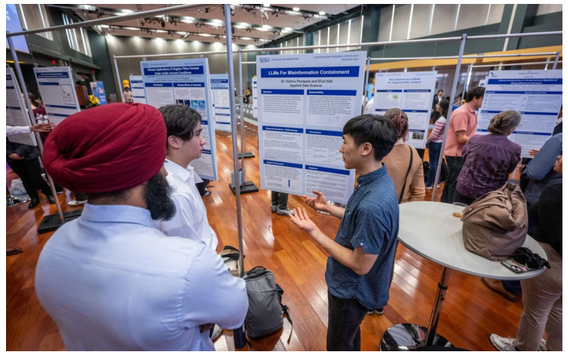
FY2024-25 Research and Innovation Timeline

2024 Q1
JULY, AUGUST, SEPTEMBER

- Behavioral Health Social Work Training and Fellowship Program receives $24.9M to expand the statewide behavioral care workforce.
- New U.S. Department of Defense-funded LiDAR and high-performance modeling capabilities give students and faculty access to advanced tools for studying landscape change and environmental resilience.
- A 500 MHz NMR spectrometer award strengthens campus capacity for molecular discovery, opening new opportunities for biotechnology collaborations.

2024 Q2
OCTOBER, NOVEMBER, DECEMBER

- A $1.48M U.S. Department of Education project launches to bring digital civics, media literacy, and empirically supported instructional tools to under-resourced K–12 schools and families.
- SJSU launches a new high-performance computing cluster, tripling research capacity for engineering, weather and environmental forecasting models, and data-intensive discovery.
- Faculty advance fundamental research in quantum mechanics and high-energy physics, deepening scholarly insight into the building blocks of physical reality.



2025 Q3
JANUARY, FEBRUARY, MARCH

- A $10M initiative expands the Green Ninja science-learning program with AI-enhanced, project-based curricula for middle schools, supporting the next generation of environmental-science learners.
- U.S. National Science Foundation scholarships broaden pathways for Earth systems and geology students through a multi-year program that provides academic, funding, and career-development support.

2025 Q4
APRIL, MAY, JUNE

- FY2025 totals
  - $111.3M in funding received (up from $73.5M in FY2024)
  - 347 proposals submitted
- Fourth Annual Research Week 2025
  - 17 events over five days reaching 1,300+ in-person and online attendees through student showcases, cross-disciplinary events, and industry engagement.
- The Record Clearance Project receives $1.41M to expand legal services, improving second-chance opportunities for participants.
- A new CIRM award strengthens the region's biomedical science-focused workforce by supporting hands-on training for students preparing for careers in regenerative medicine.

Associate Professor Dr. Birgitte McDonald (top left) with a few members of the Vertebrate Ecology Lab. Back row, left to right: Dr. McDonald; Aleah Corbo, '28 MS Marine Science; Amber Diluzio, '26 MS Marine Science. Front row: Jessica Hughes, '28 MS Marine Science; Sage Patchett, '28 MS Marine Science; Vicky Ooi, '26 MS Marine Science; and Sarah Perryman, '27 MS Marine Science.

Birgitte McDonald

Advancing Marine Stewardship Through Student-Led Stranding Research

When deceased seals, sea lions, or dolphins wash ashore in Monterey or Santa Cruz Counties, the response team from Moss Landing Marine Laboratories is ready. Led by Associate Professor Birgitte McDonald of SJSU's College of Science, the program investigates strandings to reveal critical insights into the health of marine mammals and broader ocean conditions.

The effort is a collaboration with Robin Duncan of the University of California, Santa Cruz, and forms part of the nationwide Marine Mammal Stranding Network. Findings are contributed to a national database that informs marine stewardship policies, such as adjusting shipping lanes or modifying fishing gear to reduce harm to marine life.

SJSU student researchers play a central role. The program is structured as a tiered training model, in which graduate students advance from field response to data management, eventually taking on coordination responsibilities. Each year, students gain experience with real-world stranding investigations, technical research methods, and leadership skills that prepare them for careers in marine science. As McDonald explains, "This program gives students practical experience in marine mammal science while building leadership and data management skills that directly support their future careers." This project advances the San José State University Research Strength of Climate Resilience: Species Health.

With proximity to the Monterey Bay National Marine Sanctuary and Moss Landing Marine Laboratories, students benefit from unparalleled access to a wide range of ecosystems. This strategic advantage strengthens San José State University's commitment to field-based ecological research and long-term environmental adaptability. Long-term stranding data has already identified unusual mortality events and tracked emerging disease outbreaks, providing critical guidance for national marine protection efforts. "Stranding data provide a unique window into the health of marine mammal populations and the changing conditions of our coastal ecosystems," says McDonald.

Reflecting the significance of this work, the 2021 Times Higher Education Impact Rankings placed San José State in the Top 15 worldwide for "Life Below Water," recognizing universities that protect aquatic ecosystems. Through McDonald's research program, SJSU students are helping advance that mission, contributing vital science while gaining the skills to lead in marine ecology and habitat.

Photo: Daniel P. Costa. NMFS Permit No. 23188.

Associate Professor Birgitte McDonald guides student researchers during a stranding investigation near Monterey Bay. Proximity to Moss Landing Marine Laboratories and the bay's diverse ecosystems provides SJSU students with real-world training in marine ecology and stranding response.

Photo courtesy of Daniel P. Costa and taken under National Marine Fisheries Service Permit No. 23188.

***Explore** the Vertebrate Ecology Lab and its marine mammal stranding research.*

Foundational Support of Marine Mammal Stranding in Central California

University of California, Santa Cruz

Award(s): $19,770 as of June 30, 2025

SJSU Research Strength:
Climate Resilience: Species Health

Salma Farid and Drs. Bree Grillo-Hill, Theresa Dinh, Jae Chung, and Alexander Payumo lead the Stem Cell Internships in Laboratory-based Learning (SCILL) program, which prepares graduate students for careers in stem cell biology and regenerative medicine through hands-on research training.

Bree Grillo-Hill, Salma Farid, Jae Chung, Theresa Dinh, and Alexander Payumo

Training Scientists for Careers in Regenerative Medicine Since 2008

For nearly two decades, the Stem Cell Internships in Laboratory-based Learning (SCILL) program has quietly shaped the scientific workforce emerging from San José State University. Launched in 2008 and continuously funded through the California Institute for Regenerative Medicine (CIRM) since then, the program reflects a long-term commitment to preparing graduate students for research careers in stem cell biology and regenerative medicine. This project advances the San José State University Research Strength of Health and Well-Being: Biotechnology.

The program is led by Dr. Bree Grillo-Hill and supported by Salma Farid, with faculty collaborators Drs. Jae Chung, Theresa Dinh, and Alexander Payumo, all in the Department of Biological Sciences at the College of Science. Housed within a new concentration in Stem Cell Biology master's degree curriculum, the two-year training model blends rigorous coursework with sustained laboratory immersion. Students complete multiple lab courses before moving into full-time, paid internships during their second year, working alongside researchers at academic institutions and biotechnology companies throughout Northern California.

SCILL's longevity is matched by measurable outcomes. Since its inception, more than 170 graduate students have completed the program. Approximately 60 percent of alumni are now employed in biotechnology industry roles, while others pursue doctoral training or continue working in academic research laboratories. These outcomes reflect the program's focus on applied experience and workforce readiness, particularly within Silicon Valley's dense biotechnology ecosystem.

Each year, 10 students are admitted, forming two active cohorts at any given time: one engaged in on-campus coursework and another embedded full-time in external research environments. The creation of a dedicated Stem Cell Biology degree concentration track further strengthens this pathway, allowing students to build theoretical foundations before advancing into complex laboratory and internship work. Students begin their laboratory training using established mouse stem cell models, with later experience using induced pluripotent human stem cells. This extensive laboratory training prepares students to work in prestigious, research-intensive labs during their internships, where most students generate sufficient data to be included in a publication.

"The SCILL program provides unique opportunities for our SJSU students to specialize and receive training in stem cell biology, opening the door to careers in scientific research," Grillo-Hill says. Supported by the California Institute for Regenerative Medicine, the program continues to pair long-standing partnerships with consistent student outcomes, reinforcing San José State University's role in training the next generation of biomedical researchers.

Erick Sanchez '27, Stem Cell Biology, examines cardiac cells that he made from mouse embryonic stem cells in the Stem Cell Biology laboratory course as part of his research training.

***Explore** the Stem Cell Internships in Laboratory-based Learning program at San José State University.*

Stem Cell Internships in Laboratory-based Learning

California Institute for Regenerative Medicine

Award(s): $4,327,800 as of June 30, 2025

SJSU Research Strength:
Health and Well-Being: Biotechnology

Bronwyn LaMay, Andy Robinson, and Scott Jarvie lead the San José Area Writing Project, which prepares teachers to strengthen writing instruction and foster student voice across the Bay Area.

Bronwyn LaMay, Andy Joseph "A.J." Robinson, and Scott Jarvie

Empowering Teachers, Elevating Student Voices

For more than 35 years, the San José Area Writing Project (SJAWP) has provided a professional home for teachers committed to transforming writing instruction. Today, the program is directed by Bronwyn LaMay, who holds a dual appointment as a lecturer in the Department of English and Comparative Literature in the College of Humanities and the Arts and in the Department of Teacher Education in the Connie L. Lurie College of Education. She is joined by Associate Directors Scott Jarvie, Assistant Professor in the Department of English and Comparative Literature and Andy Joseph "A.J." Robinson, Teacher of Performing Arts and Creative Writing at East Palo Alto Academy in the Sequoia Union High School District and Teacher Mentor at the San Mateo County Office of Education. Their combined leadership bridges San José State University and regional K-12 schools, leveraging their shared expertise to strengthen writing instruction programming and professional growth opportunities for teachers across the region.

The project's history deepens its purpose. Founded in 1988 by Professor Emeritus Jonathan Lovell, SJAWP grew from the Bay Area Writing Project at UC Berkeley, which pioneered the "teachers teaching teachers" model. Now part of the National Writing Project's 175-site network, SJAWP contributes to preparing 2,500 new teacher-leaders annually, reaching 95,000 colleagues and more than 6 million students nationwide.

Locally, SJAWP offers workshops, mentoring, and youth-focused initiatives such as the Teen Novel Writing Program, the Teen Writers Institute, and monthly salons. These efforts advance two SJSU Research Strengths: 1) Social Justice: Learning and Development, and 2) Urban Futures: Public Arts. Its facilitative approach to teaching encourages students to share their stories and helps teachers build classrooms where all voices are valued and supported.

SJAWP also adapts to contemporary challenges. Recent programs have explored writing in the age of artificial intelligence, along with approaches to healing, strength, and creative practice. Many SJSU alumni return as participants, facilitators, and collaborators, reinforcing the sense of professional home.

"The SJAWP is, first and foremost, a home for teachers — a safe place to develop personally and professionally," LaMay says. "We can be caring and not confrontational, because we ground ourselves in the confidence we build together."

Blending history, innovation, and collaboration, SJAWP strengthens classrooms, enriches Silicon Valley and its surrounding areas, and advances public education.

Teachers gather during a 2024 San José Area Writing Project summer session at a participant's home, where collaborative workshops provide practical strategies for literacy instruction and foster professional connections across the Bay Area.

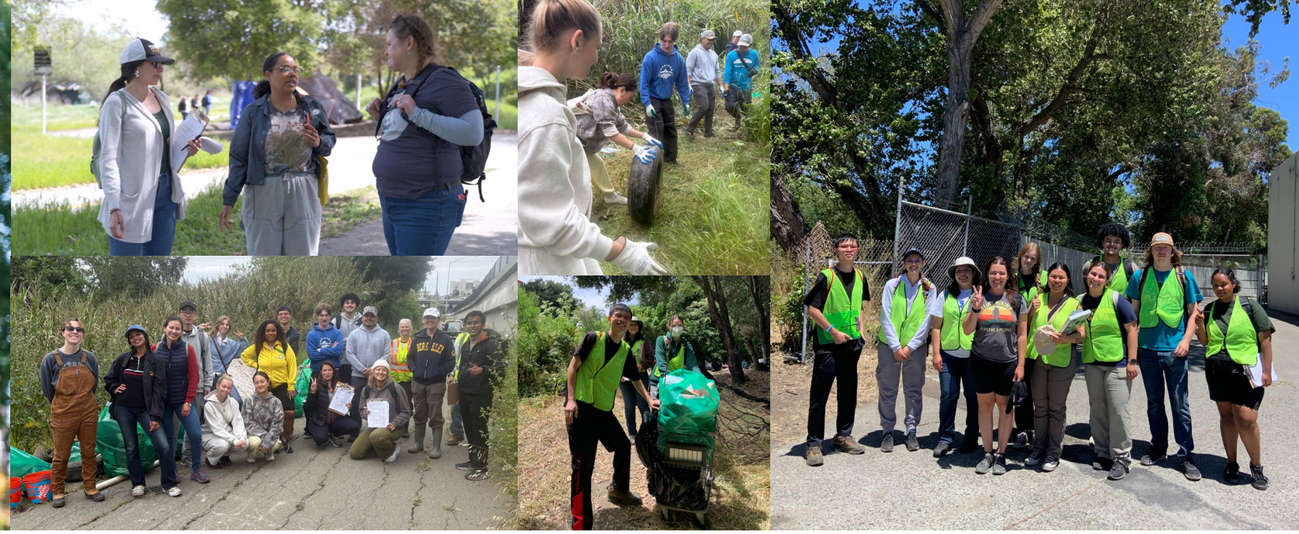
San José Area Writing Project

The Regents of the University of California, Office of the President (UCOP)

Award(s): $75,595 as of June 30, 2025

SJSU Research Strengths:
1) Social Justice: Learning and Development
2) Urban Futures: Public Art

***Discover** workshops, programs, and teacher resources at the San José Area Writing Project.*



Dr. Costanza Rampini and members of her 14-student research team — spanning five departments — conduct fieldwork along Bay Area streams, gathering interviews and data that will inform more responsive public policies.

Costanza Rampini

Where Urban Streams, Climate Change, and Survival Collide

How do you turn field data into a public good for those whom society often leaves behind? Associate Professor Costanza Rampini in the Department of Environmental Studies at the College of Social Sciences is confronting this question head-on. As part of a $2 million interdisciplinary grant led by UC, Davis, and in partnership with six other collaborating agencies, her *Resilient and Equitable Urban Stream Corridors* project investigates how climate-driven disasters — floods, heatwaves, and drought — affect unhoused communities living along waterways in the Bay Area.

San José State University, situated between the Guadalupe River and Coyote Creek, offers a uniquely positioned vantage point for urban ecological research. Between 2023 and August 2025, Rampini and her team visited 39 encampments, conducted 310 interviews, and participated in 23 river cleanups throughout the San Francisco Bay Area, collaborating with more than a dozen local agencies and service providers.

The project also offers transformative research experience for Rampini's 14 student researchers — eight undergraduates and six graduate students — from five departments. Students co-developed field instruments, planned fieldwork, conducted interviews, analyzed data, and co-authored publications. These experiences help them build the skills and perspective needed for graduate programs and careers in environmental research, urban planning, and public policy. "By participating in this project," Rampini says, "they have learned the benefits of interdisciplinary research and gained a deeper understanding of and empathy for people who live and sleep outside." This project advances three of San José State University's Research Strengths: 1) Climate Resilience: Land and Water Studies, 2) Climate Resilience: Environmental Resilience, and 3) Urban Futures: Public Policy.

***Explore** how Rampini's team is mapping streamside risks and rethinking research-based responses in this Washington Square Magazine article.*

"I went into this project with the understanding that unhoused people camp along urban streams because they can be out of sight," she adds. "What I learned is that people enjoy living along streams because of the closeness to nature, and because stream corridors are often cooler and breezier than crowded downtown areas."

Rampini hopes that local officials, planners, and service providers will use the team's findings to shape more responsive and humane policies. "We all stand to benefit from healthier urban rivers and from including the most affected members of our society in urban climate change solutions."

By examining how extreme weather impacts those living along urban waterways, Associate Professor Costanza Rampini, Ph.D., deepens understanding of human-environment dynamics and helps inform responsive policy, giving students experience in field-based research that bridges science and civic action.

Resilient and Equitable Urban Stream Corridors

Regents of the University of California, Davis

Award(s): $520,901 as of July 1, 2025

SJSU Research Strengths:
1) Climate Resilience: Land and Water Studies
2) Climate Resilience: Environmental Resilience
3) Urban Futures: Public Policy

Professors Elisa Mattarelli and Sumita Raghuram, Research Associate Bhavna Hariharan, and student researcher Valerie Leong, all from the Lucas College and Graduate School of Business, collaborate on their National Science Foundation–funded study examining multiple team membership and well-being in technology-driven workplaces.

Elisa Mattarelli and Sumita Raghuram

Advancing Research on Multiple Team Membership and Wellbeing

Every day, employees around the world juggle several project teams at once — each with its own goals, team norms, and tools. At San José State University's Lucas College and Graduate School of Business, Professors Elisa Mattarelli and Sumita Raghuram lead a National Science Foundation–funded research collaboration group spanning multiple universities in the United States and Italy. Their project, Multiple Team Membership (MTM) through Technology: A Path towards Individual and Team Wellbeing?, examines how working across several teams — often in virtual, technology-driven environments — affects both individual wellbeing and team performance, and how organizations can apply these findings to management practice. This project advances the San José State University Research Strength of Health and Well-Being: Mental, Behavioral Health.

Drawing on interviews, surveys, and experiments involving so far more than 400 organizational employees, the team identified conditions that help employees remain engaged and productive while balancing competing demands. Their findings underscore that, although the main advantage of multiple team membership is the opportunity to be exposed to diverse contexts, learning and sharing knowledge across different teams can be particularly challenging. The data suggest that team members learn to be effective multi-teamers in strikingly different ways and that unstructured knowledge-sharing sessions — where team members determine how and when to exchange ideas — can help strengthen collaboration across teams. In hybrid work arrangements, they found that being part of at least one highly supportive team substantially improves satisfaction. Together, these results contribute to the university's Research Strengths in Health and Well-Being: Mental, Behavioral Health and Urban Futures: Ethical Technology.

SJSU students have helped collect and analyze data, gaining direct experience with research methods and developing problem-solving skills valued by employers and graduate programs. The team is also creating a simulation platform and teaching modules so students can practice strategies for managing multiple team roles — an example of how San José State University research improves quality of life and informs effective workplace practices.

"By understanding how people experience multiple team membership, we can design organizations where technology truly enhances collaboration," Mattarelli says.

Explore the Multiple Team Membership (MTM) Project and its global research collaborations.

Multiple Team Membership (MTM) through Technology: A Path towards Individual and Team Wellbeing?

United States National Science Foundation (NSF)

Award(s): $338,000 as of June 30, 2025

SJSU Research Strength:
Health and Well-Being: Mental, Behavioral Health

This project reflects the collective expertise of a global research team advancing the study of multiple team membership and well-being. The collaborators below contributed to the project's design, data collection, analysis, and scholarly exchange.

Fabiola Bertolotti, PhD, Professor, University of Modena and Reggio Emilia, Italy
Leila Ahmadpur, PhD, Postdoctoral Researcher, Luiss University, Italy
Bhavna Hariharan, PhD, Research Associate, Lucas College and Graduate School of Business, SJSU
Kelly Fadel, PhD, Professor, Utah State University
Valerie Leong, Research Assistant, Lucas College and Graduate School of Business, SJSU
Alyssa Bailey, Research Assistant, Lucas College and Graduate School of Business, SJSU
Joshua Zhang, Graduate Student, University of Southern California; former SJSU Research Assistant
Vrinda Malhotra, Doctoral Student, George Mason University; former SJSU Research Assistant

Wendy Quach, Eun Ae Choi, and Pei-Tzu Tsai from the Department of Communicative Disorders and Sciences lead Project INCLUDE, a federally supported initiative preparing future speech-language pathologists to better serve autistic children from families with different home languages.

Eun Ae Choi, Pei-Tzu Tsai, and Wendy Quach

Discover How Project INCLUDE Trains Speech-Language Pathologists to Expand Care

At San José State University, a team of faculty investigators is training future speech-language pathologists to transform how autistic children with various linguistic backgrounds are understood and supported.

Led by Drs. Eun Ae Choi, Pei-Tzu Tsai, and Wendy Quach, all from the Department of Communicative Disorders and Sciences in the Connie L. Lurie College of Education, Project INCLUDE: Integrating Neurodiversity and Cultural-Linguistic Understanding and Differences in Education is a multi-year initiative funded by the U.S. Department of Education, Office of Special Education Programs, and prepares graduate-level scholars to better serve autistic children from linguistically varied populations.

"The inspiration behind proposing Project INCLUDE stemmed from recognizing a significant gap in our field: neurodiversity and cultural-linguistic diversity are too often addressed in isolation. Yet in reality, these dimensions frequently intersect in complex and deeply meaningful ways," the investigators explained.

Over five years, four cohorts of six master's-level scholars will receive stipends, mentorship, and specialized training. The first cohort has completed rigorous preparation and will serve the public through education initiatives to increase awareness of autism and evidence-based practices. Currently, twelve students are enrolled, gaining clinical expertise through opportunities such as JASPER training, a play-based intervention program; ADOS-2 training, a diagnostic and assessment tool; and training from the Department of Developmental Services Autism Service Branch regarding a state-wide support system for autistic children and their families. In their second year, each cohort applies the training they received to benefit the broader public.

"This grant has empowered a new generation of speech-language pathologists to bridge the gap between neurodiversity and cultural diversity," said Choi, Tsai, and Quach. Their vision is to strengthen the quality of services for individuals with autism and reduce disparities across various linguistic populations.

Project INCLUDE advances two of San José State University's Research Strengths: 1) Social Justice: Learning and Development, and 2) Health and Well-Being: Health Disparities. The program benefits both students and society, training skilled professionals, fostering independence and confidence, and improving quality of life through applied solutions in education, health, and social engagement.

See how graduate scholars in Project INCLUDE are transforming services for children and families from varied cultural and developmental backgrounds.

Project INCLUDE: Integrating Neurodiversity and Cultural-Linguistic Understanding and Differences in Education

U.S. Department of Education

Award(s): $190,628 as of June 30, 2025

SJSU Research Strengths:
1) Social Justice: Learning and Development
2) Health and Well-Being: Health Disparities

In their robotics laboratory on campus, Mahima Agumbe Suresh, Associate Professor of Computer Engineering; Behin Elahi, Associate Professor of Industrial and Systems Engineering; Lin Jiang, Assistant Professor of Mechanical Engineering; Yue Luo, Assistant Professor of Industrial and Systems Engineering; and Lesther Papa, Assistant Professor of Psychology, alongside one of the robotic arms used in their research on human–robot interaction.

Lin Jiang, Mahima Agumbe Suresh, Behin Elahi, Yue Luo, and Lesther Papa

How an Interdisciplinary Team Is Shaping the Future of Human–Robot Interaction

Researchers at San José State University are advancing new approaches for human–robot interaction by drawing together expertise from engineering, human factors, and behavioral science. The project team includes Project Principal Investigator (PI): Lin Jiang, Assistant Professor of Mechanical Engineering; co-PI: Mahima Agumbe Suresh, Associate Professor in the Department of Computer Engineering; co-PI: Yue Luo, Assistant Professor in the Department of Industrial and Systems Engineering; and co-PI: Behin Elahi, Associate Professor in the Department of Industrial and Systems Engineering — all from the Charles W. Davidson College of Engineering — and co-PI: Lesther Papa, Assistant Professor in the Department of Psychology in the College of Social Sciences. Working as an interdisciplinary group, they are developing mixed-reality and sensing platforms designed to support safe, reliable communication and collaboration between people and robotic systems.

CISE MSI: RDP: IIS: HCC: Demonstrating Mixed Reality and Edge Computing in Human-Robot Interaction and Collaboration Considering Human Factors

National Science Foundation

Award(s): $599,969 as of June 30, 2025

SJSU Research Strengths:
1) Human Factors:
Human Interaction with Technology
2) Emerging Technology:
Cybersecurity and Networks
3) Emerging Technology:
Artificial Intelligence & Robotics
4) Health and Well-being:
Digital Health and Assistive Technologies

This project advances four of San José State University's Research Strengths: 1) Human Factors: Human Interaction with Technology, 2) Emerging Technology: Cybersecurity and Networks, 3) Emerging Technology: Artificial Intelligence & Robotics, and 4) Health and Well-Being: Digital Health and Assistive Technologies.

Since launching in March 2025, the group has established a multi-robot simulation platform tailored to clinical and emergency scenarios. Early studies use haptics, wearables, and integrated sensing systems to examine communication patterns, physical interaction, and task coordination. A partnership with a local medical center enables the project to extend its work into real-world settings. Eight SJSU student researchers play a central role, gaining experience in simulation design, human–robot studies, and data analysis while collaborating across engineering and psychology teams.

Initial findings include a publication on light-based signals for communicating robot operating states, offering insight into how visual cues may support more intuitive teamwork. New use cases, such as upper-limb rehabilitation with humanoid manipulators and hallway navigation support, help surface practical design considerations for clinical workflows. Alongside these studies, the team is building a low-latency architecture intended to support robust sensor and mixed-reality integrations.

The project continues to scale data collection and refine robot policies that align with real-world needs. By advancing tools, methods, and partnerships, the team contributes knowledge that can strengthen human-centered technology and support safer, more effective collaboration in health and emergency environments.

***Explore** student research opportunities in Professor Jiang's human–robot interaction laboratory.*

A rare moment bringing project sponsors, community partners, co-principal investigators, and research team together for an in-person photo opportunity in front of SJSU's Arch of Dignity, Equality, and Justice: Melissa Gonzalez, Latinas Contra Cancer; Nathalie Carvajal and Gabby Chavez-Lopez, Latina Coalition of Silicon Valley; Vicky Gomez, DrPH, College of Health and Human Sciences, SJSU; Barbara Gomez-Aguiñaga, PhD, Comprend.us; and Darcie Green, Latinas Contra Cancer.

Vicky Gomez

Elevating Latina Voices to Improve Health and Opportunity

In Silicon Valley, where prosperity and innovation often mask deep social divides, Latinas continue to face significant gaps in access and outcomes in health, income, and opportunity. Vicky Gomez, DrPH, Associate Professor of Public Health at the College of Health and Human Sciences, is co-leading a community-based participatory research mixed methods study with Barbara Gomez-Aguiñaga, Ph.D., co-founder and research lead at Comprehend.us, which brings these realities into focus and amplifies the voices of those most affected.

Funded through the U.S. Department of Labor's Community Project Funding program, the project, "Understanding the intersection of Health & Wealth of Silicon Valley Latinas Across the Social Determinants of Health" unites San José State University with visionary leaders from local partner community organizations, Darcie Green and Melissa Gonzalez, from Latinas Contra Cancer, and Gabby Chavez-Lopez and Nathalie Carvajal from the Latina Coalition of Silicon Valley. Together, they are collecting data that illustrates how long-standing challenges in education, health care, housing, and economic access affect the everyday lives of Latinas and their families. This project advances two of San José State University's Research Strengths: 1) Health and Well-Being: Health Disparities, and 2) Social Justice: Cultural Studies in Action.

Central to this effort is a Community Advisory Board of regional Latina leaders who are steering the project's direction. Their first meeting in June 2025 marked a pivotal step, ensuring that local perspectives guide how the data is collected and interpreted and how findings will inform local programs and policy decisions. For Dr. Gomez, this collaboration transforms research into shared collective action.

Two SJSU Latina graduate assistants, Celeste Calderon and Maya-Itzel Villa, contribute to the project and oversee three undergraduate research assistants, learning to translate academic research into social impact. "This study is a love letter to Latinas — for Latinas, by Latinas!" says Darcie Green. "Our goal is to elevate their voices and experiences to improve well-being across the region," shares Gomez.

By documenting the lived realities behind Silicon Valley's success story, the project provides evidence that can shape how regional leaders, public agencies, and regional partner organizations work together, revealing not only the differences in outcomes but also how collective action can close the gaps.

***Explore** San José State Department of Public Health programs, research, and student opportunities.*

***Explore** Latinas Contra Cancer for health education, navigation services, and support programs for survivors.*

***Visit** the Latina Coalition of Silicon Valley to learn about leadership, policy, and regional initiatives.*

***Discover** StoryCenter's digital storytelling resources, highlighting lived experiences and the impact of research.*

Understanding the Status of Silicon Valley Latinas Across the Social Determinants of Health

U.S. Department of Labor Community Project Funding

Award(s): as of June 30, 2025, **$77,900 SJSU**

Research Strengths:
1) Health and Well-Being: Health Disparities
2) Social Justice: Cultural Studies in Action

Digital Scholarship Librarian Nick Szydlowski, Health Sciences and Scholarly Communications Librarian Dawn Hackman, and Engineering and Data Services Librarian Yuqi He, Ph.D., in the Dr. Martin Luther King, Jr. Library. They are among the many researchers nationwide working with the NIH's All of Us *Research Program, a groundbreaking resource of health data from participants across the United States, which supports SJSU scholars who utilize this dataset.*

Yuqi He, Dawn Hackman, and Nick Szydlowski

Strengthening Campus Research Capacity with the *All of Us* Dataset

When Engineering and Data Services Librarian Yuqi He, PhD., first learned that the University Library had been selected for the national *All of Us Data* Training and Engagement for Academic Libraries Program, she saw an opportunity to help the campus approach health and biomedical data in a new way. The program, funded to strengthen SJSU's capacity for data-intensive research, offered training and support for working with one of the country's most comprehensive biomedical datasets. For He and her colleagues — Health Sciences and Scholarly Communications Librarian Dawn Hackman and Digital Scholarship Librarian Nick Szydlowski — it was a chance to empower students, faculty, and fellow librarians to work with complex data.

The All of Us Research Program is a National Institutes of Health initiative working to advance health research through participant engagement and data-driven discovery.

All of Us Data Training and Engagement for Academic Libraries Program

Oak Ridge Associated Universities on behalf of the National Library of Medicine

Award(s): $40,000 as of July 1, 2025

SJSU Research Strength:
Social Justice: Inclusive Libraries

The team began by developing their own skills before inviting others to learn alongside them. Intensive training for the three librarians grew into the Library-Data-Group, an internal group of 13 library staff and faculty who explored data-related topics together. Two summer workshops introduced the *All of Us* Researcher Workbench to 18 library employees and two CSU librarians, while the library's *All of Us* LibGuide drew more than 2,300 views in 14 months.

As awareness spread, interest across campus also grew. Workshops, newsletters, and Research Week activities helped SJSU researchers imagine how the dataset might support their work. When the *All of Us* Journey exhibit visited SJSU in April 2024, hundreds of passersby stopped to learn more, resulting in 700 interactions, 29 new accounts, and 19 consents for the Workbench.

Partnership with Research Triangle Institute (RTI) International's *All of Us* Researcher Academy expanded the project even further. Faculty and student community learning groups brought together participants from multiple disciplines, culminating in student poster presentations that demonstrated new skills and confidence. Their work supports the university's Social Justice: Inclusive Libraries Research Strength by showcasing data tools and training that expand access to health information and research.

The experience laid the groundwork for the library's new Data Services Team, ensuring that support for data literacy and interdisciplinary research continues to grow long after the award period has ended.

***Explore** training resources and campus engagement outcomes from the library's All of Us initiative.*

Instructor Irene Shapiro leads a water fitness class with longtime patrons of the Timpany Center, demonstrating the center's commitment to wellness programs for all ages and abilities.

How the Timpany Center Nurtures Health and Connection

When Tamar Jacobs first arrived at the Timpany Center in the early 1980s, she expected only exercise. What she found was a second home. "I made friends here — some for a lifetime," she says. Jacobs, who turned 97 in the autumn of 2025, credits the center with keeping her strong and socially connected. Her story mirrors the larger story of Timpany itself: a place where health and friendship meet.

Established in 1979 to serve children with different abilities, the Timpany Center has become a hub for older adults, families, and individuals with adaptive needs. Operated through a partnership between the San José State University Research Foundation and Santa Clara County, its programs embody the spirit of San José State's Research Strength in Health and Well-Being — demonstrating how people-focused wellness initiatives can foster resilience and transform lives.

On any given day, visitors might see instructors leading aquatic fitness classes, student interns guiding clients through tailored exercises, and seniors practicing movements that ease arthritis or improve their balance. More than a facility, the center provides connection. For Jacobs, this has meant both independence and joy. "I can bend my knees, get on the floor and stand up again — things people younger than me sometimes cannot do," she notes. At one point, four generations of her family joined her in the pool, a moment she still treasures.

With nearly 350 patrons walking through its doors each day, the Timpany Center is alive with activity and purpose. Yet, its true spirit is not measured in attendance numbers, but in the people it serves. As the Program and Operations Director, Dr. Jennifer Schachner explains, the greatest reward is not only seeing smiles on children learning to swim, but also watching people learn to walk again, and gratitude from seniors regaining mobility.

***Explore** how the Timpany Center and its dedicated team have supported **wellness access** through fitness programs for over 40 years.*

For Jacobs and thousands of patrons, the Timpany Center proves that health and connection with others go hand in hand. "Everyone is helpful there," she shared, clarifying, "the patrons, too, because everyone understands that each person comes with challenges of their own."

Tamar Jacobs, a devoted Timpany Center patron since the 1980s, credits the center's aquatic programs with helping her stay strong and independent well into her 90s. A former psychotherapist and avid writer, Jacobs also authored The Gift of Passion: The Life Journey of Tamar J., *a memoir reflecting her lifelong commitment to resilience, creativity, and human connection.*

Monthly attendance: 300 members plus 100-200 visitors

Staff: 6 full-time, 45 part-time

Weekly classes: 40 land and water-based classes

Average class size: 20

Most popular classes: Land and water-based programs for joint health

Equipment: 16 cardio, 8 strength, 5 adaptable machines, plus bands, weights, and mats

Dr. Craig Clements (standing right), Director of the Wildfire Interdisciplinary Research Center (WIRC) and Chair and Professor of Meteorology and Climate Science at SJSU, pictured with project staff and one of the WIRC trucks used to gather data from wildfires.

The Office of Research

Supporting SJSU Research, Scholarship, and Creative Activity

The San José State University Office of Research, a key unit within the Division of Research and Innovation, plays a vital role in advancing research, scholarship, and creative activity (RSCA) across campus through a variety of tailored services for faculty, staff, and students.

For Faculty and Staff Researchers

From navigating the external funding landscape to proposal development, the Office of Research offers expert guidance every step of the way. Acting as strategic thought partners, the Office of Research staff help researchers craft competitive proposals. Signature programming includes the University Grants Academy (UGA), tailored for first-time principal investigators, while curated funding opportunities lists help faculty discover new sources of support. The creation of Research Clusters, or researcher groups based on similar interests, assists in bringing together experts to solve multidisciplinary problems. The Office of Research also spotlights faculty work through events like RSCA in Five, hosting faculty and staff researchers as they share their work on broad and consequential themes, like collaborative applied research and learning, semiconductors, artificial intelligence, and quantum technologies.

Discover *how the* ***Office of Research****'s programs and initiatives assist faculty researchers with funding opportunities, collaborative efforts, and project development.*

For Student Researchers

Students are central to SJSU's research mission, and the Office of Research is committed to fostering their growth as emerging scholars and critical thinkers. Experiential learning is centered through key initiatives, like the Student RSCA Fellowship and the Student RSCA Competition, where students engage in hands-on, faculty-mentored research that deepen their academic experience. These programs not only encourage meaningful experiences in research and creative activity, but they also help prepare students for success in graduate studies and future professional and research careers.

Resilience in a Shifting Landscape

When grants end or opportunities close, the Office of Research helps faculty identify alternative funding, whether external or internal. Staff work closely with researchers to assess needs, explore viable options, and pivot quickly to keep projects on track. Through ongoing support and innovation, the Office of Research champions the work of SJSU faculty and student researchers whose discoveries expand human knowledge and drive meaningful impact, both locally and globally.

The University Grants Academy coaches faculty on how to identify funding opportunities, strengthen research proposals, and prepare competitive submissions for project sponsors.

University Grants Academy

Focused Time and Expert Support for Grant Writing

San José State University faculty have access to a range of structured, practical resources designed to support research, scholarship, and creative activity at every stage. Central among these is the University Grants Academy (UGA), a semester-long, cohort-based program offered by the Division of Research and Innovation's Office of Research that helps tenure-track and tenured faculty develop competitive external grant proposals.

UGA is designed to provide faculty dedicated time, expert guidance, and peer support as they prepare a significant external grant proposal. Participants engage in structured programming that emphasizes proposal development, alignment, and readiness for submission.

Faculty participating in the University Grants Academy receive:

- A course release to ensure focus time on the proposal
- Intensive, semester-long support led by an experienced SJSU faculty facilitator
- Regular small-group meetings focused on proposal development and feedback
- Individualized coaching and reviews to support proposal completion
- External discipline-specific proposal review
- Access to SJSU resources through the Office of Research and the Research Foundation's Office of Sponsored Programs

Explore *University Grants Academy support for faculty grant proposal development.*

UGA is part of a broader set of Office of Research resources that also includes internal funding opportunities, proposal preparation workshops, monthly funding communications, and tools, such as the GrantPuma platform, for identifying funding opportunities.

Combined, these programs aim to support high-quality grant development, strengthen submissions, and help faculty sustain momentum in their research. Contact the Office of Research at **officeofresearch@sjsu.edu**, or scan the QR code below for more information.

Dr. Ivano Aiello (right) from the Moss Landing Marine Laboratories with a master's student.

Competitive proposals, experiential learning, and intentional, team-based work: the Faculty Research Clusters Initiative is strengthening San José State's research momentum and creating pathways for external partnership.

Faculty Research Clusters

Building Faculty Partnerships Across Disciplines

San José State University's Office of Research continues to expand opportunities for interdisciplinary collaboration through the Research Clusters Initiative, a structured program designed to bring faculty together around large-scale challenges that benefit from multiple perspectives.

The initiative supports engagement across colleges and departments, encouraging researchers, scholars, and practitioners to build partnerships that strengthen proposals, expand external engagement, and pursue strategic funding opportunities. By aligning faculty expertise with shared themes, the program fosters sustained collaboration rather than one-time conversations.

Current Faculty Research Cluster themes include:

- Artificial Intelligence and Machine Learning
- Community Engaged Research
- Innovations and Equity in Advancing Health

Each cluster is supported by Division of Research and Innovation staff, faculty subject matter expert mentors, and dedicated programming designed to enhance awareness, connection, and proposal development.

The Faculty Research Clusters Initiative also creates pathways for experiential learning and workforce development by connecting research activity with student engagement and external partnership. Faculty participants gain structured opportunities to refine ideas, build teams, and position collaborative projects for external support.

As San José State continues to grow its total expenditures on sponsored activities, initiatives like Faculty Research Clusters play a central role in strengthening the university's research ecosystem through intentional, team-based collaboration.

- Building Interdisciplinary Momentum
- Engage with a themed interdisciplinary cluster
- Build cross-college research teams
- Develop competitive proposals for large-scale funding
- Strengthen external and collaborative partnerships
- Help shape the future direction of cluster themes

Faculty Research Clusters provide structured programming and hands-on training that equip faculty with the tools, mentorship, and collaborative support needed to strengthen proposals and pursue large scale funding opportunities.

***Explore** SJSU's Faculty Research Clusters and register to get involved.*

Explore internal funding opportunities designed to support faculty research, scholarship, and creative activity across every stage of a project.

Faculty Research Funding Opportunities

Faculty Funding Opportunities Through the Division of Research and Innovation

From spark to finish, the Division of Research and Innovation helps fuel faculty research, scholarship, and creative activity. Through dedicated funding and programmatic support, R&I empowers the SJSU research ecosphere to push boundaries at every phase of knowledge creation.

These internal opportunities support faculty by providing:

- Assistance with external grant proposal development
- Course release and assigned time
- Time-sensitive and bridge funding
- Supplies and equipment
- Student research support

Current funding and development opportunities include:

University Grants Academy

Offered annually, this program provides assigned time and structured support for tenure-track and tenured faculty preparing significant external grant proposals.

SJSU RSCA Seed Grant Program

This annual program supports Unit 3 faculty launching new or previously unfunded research, scholarship, and creative activity projects.

RAPID+ (RSCA Award for Prompt Investigation and Discovery)

This rolling opportunity keeps research moving forward by providing bridge funding for faculty experiencing gaps, delays, or partial funding in external awards.

Rapid Response Initiative

Designed for projects requiring immediate action due to time-sensitive or urgent circumstances that fall outside standard funding cycles.

Research Impact Academy

A semester-long cohort program focused on strengthening research communication, presentation, and impact through guided training and coaching.

Research and Innovation Scholarly Entrepreneurship (RAISE) Award

This award recognizes faculty success in securing extramural funding and reinvests a portion of those returns through assigned time to further support research activities.

Collectively, these opportunities are designed to assist faculty in advancing their research, scholarship, and creative activity at every stage.

***Learn** about internal funding programs supporting faculty research, scholarship, and creative activity.*

EXPLORE CREATE OPTIMIZE BUILD

Campus Research Opportunities for Students

At San José State University, students are an integral part of the campus research enterprise. To encourage student development as emerging scholars and researchers, the Office of Research provides a wide range of opportunities to explore real-world questions, create new knowledge, optimize experiential learning, and build valuable skills that support academic and professional goals.

Whether you're interested in science, the arts, engineering, education, or civic engagement, SJSU provides the tools and guidance to help you engage in meaningful **research, scholarship, and creative activities (RSCA)**. From connecting you with campuswide and discipline-specific projects to preparing you for the research journey, the Office of Research is your partner every step of the way.

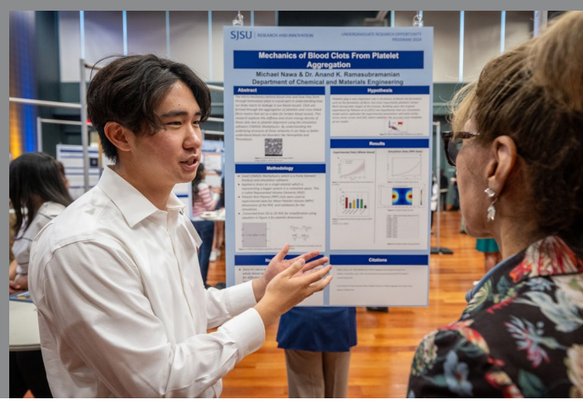
Our support includes:

- TRAC (Training for Researchers and Creators) — an interactive, self-paced course on Canvas designed to prepare you for research with core skills and knowledge. Complete the course and earn a digital badge to showcase your readiness.
- Student-focused resources and mentorship — helping you identify and apply for RSCA opportunities across all colleges and departments.
- Workshops and events that prepare you to share your work with peers, faculty, and broader audiences.

Join the hundreds of SJSU students already making an impact through research. Your journey starts here.

***Discover RSCA programs, funding, and resources** designed to help students like you thrive as researchers and creators. Scan to explore!*

***Prepare for your research journey with TRAC** — a free, self-paced Canvas course. Earn a digital badge and boost your chances of landing a research opportunity.*



Student innovators at the SpartUp: Silicon Valley Center for Entrepreneurship CISCO Hackathon — an immersive, one-day event hosted by the Office of Innovation & Corporate Partnerships where participants of all skill levels build, connect, and engage with the technology ecosystem to bring bold ideas to life.

Office of Innovation & Corporate Partnerships

Turning Vision into Venture at SJSU

At San José State University, the Office of Innovation & Corporate Partnerships is fast becoming a launchpad for ideas that change the world. Housed in the Division of Research and Innovation, the office is building a thriving innovation ecosystem that supports students, faculty, and industry partners alike, turning research into real-world impact.

In just a few short years, the office has built an innovation infrastructure at San José State that produces measurable results — both regionally and nationally.

From its SpartUp: Silicon Valley Center for Entrepreneurship Incubator to its award-winning Silicon Valley Small Business Development Center (SV SBDC), the office fosters startup creation, industry-sponsored research, and technology transfer. Students learn to pitch, prototype, and problem-solve in workshops and hackathons, while faculty gain support in navigating patent filings and licensing opportunities. Acting as both a catalyst and a strategic support, the office helps entrepreneurs move from idea to execution.

In just five years, the office has secured its first three patents, 20+ new industry research partnerships, and helped generate more than $143 million in economic impact through the SV SBDC. This year, the office played a leading role in positioning SJSU as a top Emerging Research Institution and joined a national cohort with the National Science Foundation in materials science.

As a proud Silicon Valley anchor, SJSU's innovation enterprise continues to grow. Whether through national convenings like the Government University Industry Philanthropy Research (GUIPRR) workshop or through strategic research partnerships, the office is advancing a model of innovation that is agile, collaborative, and aligned with societal needs.

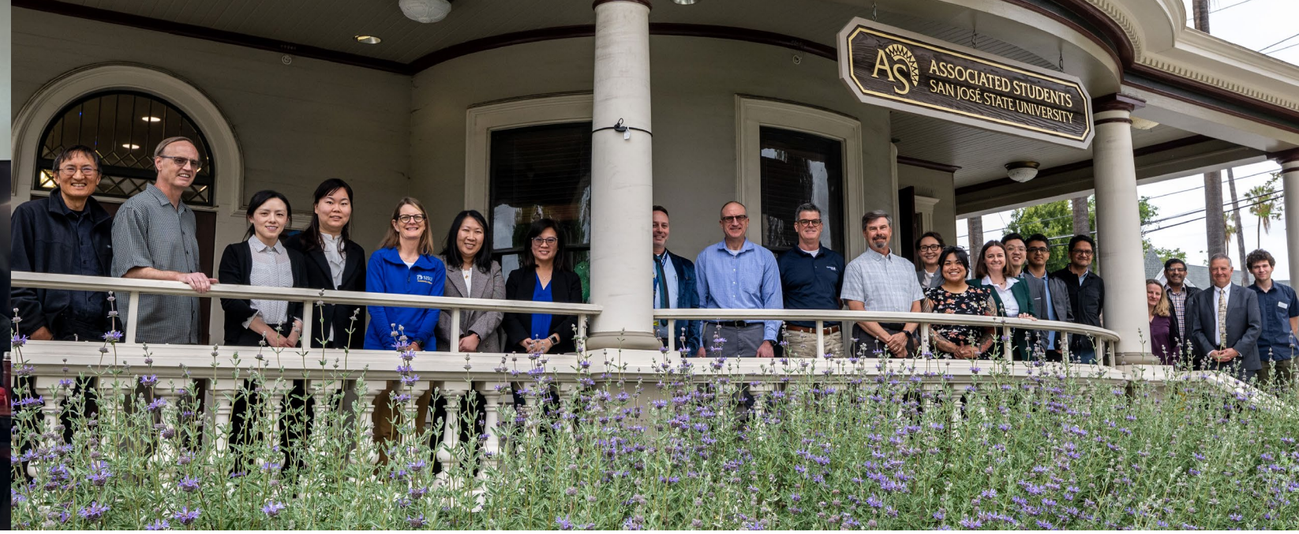
With every new venture, partnership, and prototype, the Office of Innovation & Corporate Partnerships is proving that big things begin at SJSU.

***Learn** about the Office of Innovation & Corporate Partnerships' support for all SJSU innovators.*

***Explore** available technologies for licensing from SJSU innovators and **submit** your invention.*

***Turn** your business idea into action. Scan to connect with an advisor at the Silicon Valley Small Business Development Center.*

***Apply** to the SpartUp: Silicon Valley Center for Entrepreneurship Incubator: Turn your idea into a venture with SJSU's startup program.*



Attendees of San José State University's inaugural Industry Day gather in front of the Associated Students House, where faculty researchers, industry representatives, and university leaders came together to explore opportunities for collaboration between research and industry.

Industry Research Alliances

Connecting Industry Challenges with Academic Expertise

At San José State University, the Industry Research Alliances (IRA) program links faculty expertise with the needs of companies seeking research-based solutions. These collaborations address pressing challenges in fields such as Artificial Intelligence, Cybersecurity, Networks, Energy Solutions – Renewable Energy, and Biotechnology.

In 2024–25, the SJSU Research Foundation's IRA program connected more than 50 faculty members with nearly 40 industry partners on projects and proposals that advanced technology, improved healthcare, and strengthened long-term resource stewardship. Students gained opportunities to apply academic knowledge to real-world problems, developing professional skills while contributing to outcomes with broad public benefit.

Industry partners value SJSU's agility, efficient project management, and access to state-of-the-art facilities. Faculty-led initiatives tackled issues such as improving safety in autonomous vehicles, developing medical devices for regions with limited healthcare resources, designing long-term industrial systems, and creating tools for emerging markets.

Todd Lukanc, former Intel director and Encore Fellow at the SJSU Office of Innovation and Corporate Partnerships, says, "A big surprise was learning the many areas of expertise possible at SJSU and work that could have been collaborated on."

With its strengths in research and engagement, San José State ranks second in research productivity among California State University campuses and is recognized among the nation's top 200 institutions for research spending. As the IRA program expands, the university will continue to connect discovery to implementation and shape solutions for the future.

***Discover** how SJSU researchers and industry partners solve real-world challenges.*

Jason Kim, Industry Research Alliances Specialist (far right), joins colleagues at the National Academies' "AI Infrastructure to Accelerate AI Convergence and Catalyze U.S. Scientific Innovation" convention in Washington, D.C. The June 2025 gathering brought together leaders from government, universities, industry, and philanthropy to discuss future testbeds, data-sharing frameworks, and partnerships that will drive AI-enabled scientific breakthroughs.

San José State University's Office of Innovation & Corporate Partnerships connects faculty, students, and partners with resources to transform research discoveries into market-ready solutions.

Commercialization Opportunities

From Discovery to Marketplace: Unlocking SJSU Innovations

San José State University is transforming groundbreaking research into real-world solutions. Through the Division of Research and Innovation's Office of Innovation and Corporate Partnership, faculty, students, and external partners connect with a growing portfolio of technologies — and the guidance needed to move them from concept to commercialization.

For Industry and External Partners·

SJSU's Featured Opportunities platform offers a curated set of patent-protected technologies available for licensing, from AI-enabled hardware to biomedical innovations. Industry partners benefit from streamlined licensing, startup-ready teams, and proximity to Silicon Valley's innovation ecosystem.

Why partner with SJSU?

- Licensing opportunities with commercial potential
- Fast, responsive collaboration
- Faculty and student inventors solving real-world problems

For Faculty and Researchers·

Your research doesn't have to end with publication. The Office of Innovation & Corporate Partnerships helps you protect your discoveries and bring them to market — whether through licensing, startup formation, or industry partnership.

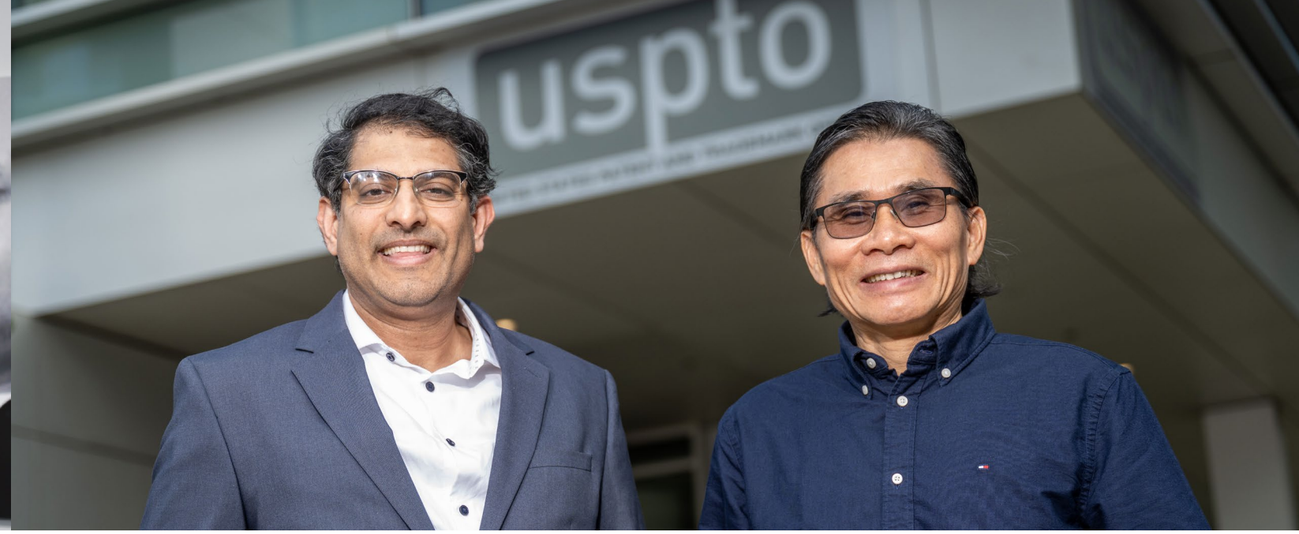
Support includes:

- Invention disclosure and patent strategy
- Commercialization coaching and IP education
- Licensing and startup pathways tailored to your work

Each licensing agreement reflects years of research by San José State University students and faculty, translating campus discoveries into practical applications.

Research technologies developed at SJSU create opportunities for industry partners to collaborate with faculty to bring new solutions from the lab to real-world use.

***Explore** licensing-ready innovations and **submit** your invention.*



With the U.S. Patent and Trademark Office located just steps from campus, San José State University connects research to real-world impact. Assistant Professor of Electrical Engineering Binh Quang Le (right) and Intellectual Property Specialist Sandeep Mukkamala (left) collaborated to secure a patent for Le's neuromorphic computing system.

Patents and Intellectual Property

Protecting SJSU Innovation, One Patent at a Time

Faculty at San José State University are conducting breakthrough research with the potential to solve some of society's most significant challenges — from environmental resilience to next-generation computing. To move innovation from the lab to the marketplace, it requires the critical safeguard of intellectual property (IP) protection. That's why SJSU's Division of Research and Innovation provides faculty, students, and staff with direct access to a dedicated Intellectual Property Specialist through its Office of Innovation & Corporate Partnerships.

When Dr. Binh Quang Le, assistant professor of electrical engineering, developed a novel neuromorphic computing system that combines memory and processing on a single chip, he turned to the division's IP Specialist, Sandeep Mukkamala. What followed was a focused, collaborative process: Sandeep reviewed Le's invention disclosure, conducted a targeted prior-art search, and worked closely with him to frame the invention for a strong patent filing. Together, they translated complex research into a clear and defensible application.

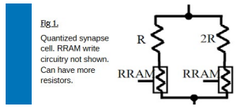
"Every patent we secure represents not just legal protection for an invention, but a foundation for innovation that can transform ideas into impact," says Mukkamala. "We're not just managing applications — we're building a strategic IP portfolio that positions SJSU innovations for global commercialization."

That collaboration led to a major win. In fiscal year 2024–25, Dr. Le was awarded U.S. Patent No. 12,334,150 for his energy-efficient, AI-enabled computing system — an invention with potential applications in edge computing, smart sensors, and autonomous systems. The Office of Innovation & Corporate Partnerships also processed 10 invention disclosures and filed three additional patent applications, including international filings. Cross-campus collaborations are also expanding, with joint filings involving UT Austin and Stanford University.

***Learn** how to protect your research and submit your invention.*

This model of direct, expert support creates real value for faculty. Researchers receive timely guidance on balancing publication with patent strategy, insights into the competitive landscape, and assistance in positioning innovations for licensing and investment. Students benefit too — learning patent analytics, participating in filings, and gaining experience that sets them apart in STEM careers.

From neuromorphic chips to resource-efficient construction, SJSU's growing patent portfolio is paving the way for commercialization, funding, and real-world impact — powered by a dedicated specialist who makes innovation protection both strategic and within reach.



A schematic illustrates a quantized synapse cell invented by Binh Quang Le, combining resistive RAM elements with fixed resistors to support energy-efficient in-memory computing for neural networks.

Invention Activity in FY2024-25

- **10** Invention Disclosures Processed
- **3** Patent Applications Filed (Including International)
- **1** U.S. Patent Issued

Breakthrough Highlight: U.S. Patent No. 12,334,150

Neuromorphic Computing System by Dr. Binh Quang Le— AI-enabled, energy-efficient, and market-ready

What We Do

- Prior Art Searches and Patentability Assessment
- Patent Prosecution and Portfolio Management
- IP Strategy, Education, and Faculty Guidance

Who We Serve

Faculty, student inventors, and staff across all disciplines

Collaboration Spotlight

Partnered with Stanford, UT Austin, and University of Redlands

Supported by Schwegman Lundberg & Woessner LLP

The Silicon Valley SBDC was a sponsor of this year's Startup World Cup, a global pitch competition for early-stage ventures. Pictured: A mentor of the center presenting their startup business model.

The Silicon Valley Small Business Development Center

Helping Entrepreneurs Launch and Grow

Based in the heart of the innovation capital, the Silicon Valley Small Business Development Center (SBDC), hosted by San José State University, is powering the region's entrepreneurial ecosystem by providing no-cost, one-on-one advising to early-stage tech founders and local small business owners. Whether launching a startup or scaling a neighborhood bakery, the Silicon Valley SBDC helps turn vision into viable, capital-ready ventures.

Its hybrid model bridges two worlds: the venture-backed startup scene and the Main Street business sector. In the past year alone, the center served 942 clients, helped raise $143 million in capital across 34 companies, and supported seven startups in securing more than $2.36 million in SBIR federal grants. That's real money fueling real growth.

"The Silicon Valley SBDC is where the next great founders go when they need expert guidance, funding preparation, and someone who believes in their potential before the world does," says Edgar Ceron, director of the center.

By supporting first-time founders and founders who have been less visible in the entrepreneurial landscape, the SBDC directly contributes to broad-based economic development — a core SJSU Research Strength. For example, students benefit from pitch coaching and expert advising, while faculty gain help with SBIR/STTR grant strategy and research commercialization.

Backed by Comerica Bank, Wells Fargo, and Marble Bridge, and working closely with SJSU's Office of Innovation & Corporate Partnerships, the SBDC is creating new pathways to capital and opportunity. From global pitch competitions to regional procurement summits, the center is scaling ideas into impact.

Visit **sjsu.edu/sbdc** to learn more or apply for advising.

Entrepreneurs and local agencies connect at the Bay Area Procurement Summit, co-hosted by SVSBDC and regional partners to expand access to contract opportunities.

FY2024-2025 Impact

Capital Infused: $143M to 34 companies
SBIR Grants: $2.36M to 7 companies
Clients Served: 942
New Clients: 294
Mentors/Experts: 13
Counseling Hours: 98 hours

***Turn** your business idea into action.*
***Scan** to connect with an advisor.*

Pictured are prize winners from the SpartUp: Silicon Valley Center for Entrepreneurship Incubator's Spring Hackathon, a one-day event hosted by the Office of Innovation & Corporate Partnerships during which students developed startup ideas and working demos. SpartUp: SVCE is dedicated to empowering student entrepreneurs through competitions, mentorship, and hands-on startup support.

SpartUp: Silicon Valley Center for Entrepreneurship

Where Innovation Meets Opportunity

The SpartUp: Silicon Valley Center for Entrepreneurship at San José State University expands access to hands-on startup development by connecting students, alumni, and professionals to a structured ecosystem of programs, mentorship, and industry engagement. Building on the foundation of SpartUp and the Silicon Valley Center for Entrepreneurship, the new center brings together education, venture development, and real-world application within the Lucas College and Graduate School of Business.

Participants engage in a progression of programs designed to support every stage of venture creation. Offerings such as semester-long cohort programs, the Summer Intensive, and ZinnStarter provide structured pathways for developing and refining ideas, while mentorship programs connect participants with experienced entrepreneurs and advisors. Whether through cohort-based guidance or on-demand support, mentorship helps translate ideas into viable ventures.

Competitions and pitch-focused events further strengthen this experience. The Silicon Valley Business Plan Competition and Silicon Valley Innovation Challenge offer participants opportunities to test and present their ideas, while Pitch Jam events help build the confidence and communication skills essential to early-stage ventures. Signature programming, including the Eminent Speaker Series and the Responsible Innovation in AI Conference, brings industry leaders to campus and expands access to current perspectives in entrepreneurship and innovation.

SPARTUP Incubator

***Explore** programs, mentorship, and startup opportunities through the SpartUp: Silicon Valley Center for Entrepreneurship.*

These programs create meaningful opportunities for participants to apply academic knowledge in practical settings, develop entrepreneurial and technical skills, and collaborate across disciplines. Engagement extends beyond campus through connections with Silicon Valley's broader network of investors, mentors, and professionals, offering access to funding pathways, partnerships, and advisory support.

By centralizing these resources, SpartUp: Silicon Valley Center for Entrepreneurship strengthens San José State University's role in preparing individuals to launch ventures, contribute to regional economic activity, and navigate an evolving innovation landscape. The result is a connected environment where ideas are tested, refined, and advanced into real-world solutions.

Scan the QR code to join the incubator or learn more: **sjsu.edu/spartup-svce/**.

Spartaneurs attend the 2025 Founder Fiesta, one of the SpartUp: Silicon Valley Center for Entrepreneurship's signature events featuring speaker panels, networking, and real-world startup advice — all designed to spark connection and inspire action.

STATEMENT OF ACTIVITIES

FISCAL YEAR ENDING JUNE 30, 2025

REVENUE AND SUPPORT

Federal Contracts and Grants
$34,247,421

State Contracts and Grants
$24,522,263

Other Contracts and Grants
$9,695,797

Indirect Cost Recovery- C&G Other Revenue and Support
$11,796,879

Other Revenue and Support
$9,101,877

Gifts
$4,046,979

Total Revenue
$93,411,216

EXPENSES

Sponsored Programs
$70,960,231

Board Designated Programs
($291,016)

Campus Organizations Activities
$4,660,576

Support Activities - Management and General
$12,401,561

Transfers to SJSU and Tower Foundation
$665,674

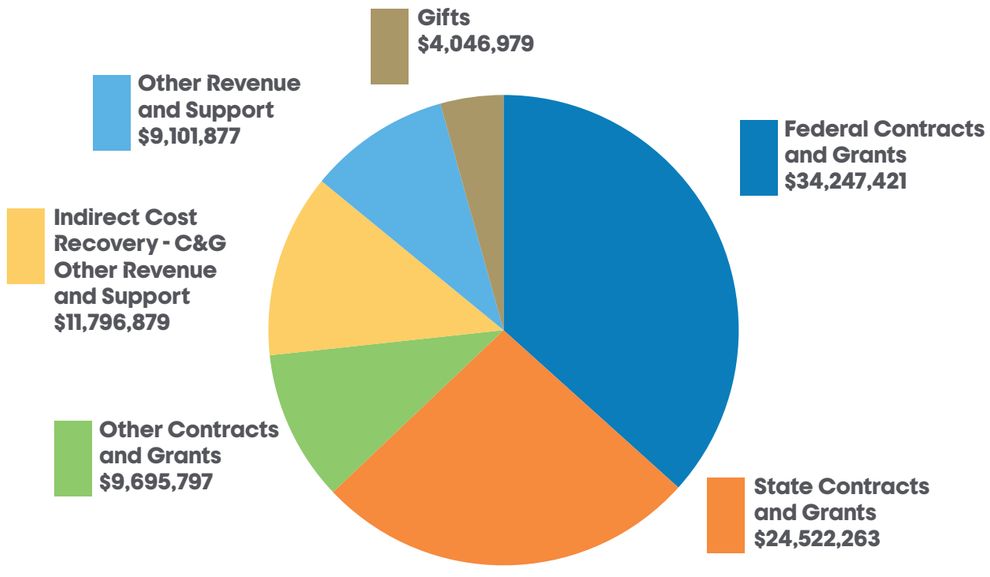
Total Expenses
$88,397,026

CHANGE IN NET POSITION
$5,014,190

Net Position at beginning of Year
$23,631,159

Net Position at end of Year
$28,645,349

Types of Revenue and Support



FISCAL YEAR 2024-2025

CONTRACTS, GRANTS, AND FELLOWSHIPS

Charles W. Davidson College of Engineering

Dean's Office

Nicole Okamoto, Mathew Stowe
MESA Engineering Program (MEP) - Academic Year 2023-2024
Board of Regents, University of California
$80,000

Xiao Su
Longevity, Equity, and Aging Research Network (L.E.A.R.N) Institute
Stanford University
$16,436

Department of Aerospace Engineering

Maria Chierichetti, Radha Aravamudhan
GenAI as Coding Tutor to Support First Year Engineering Students
Foundation for California Community Colleges
$150,000

Periklis Papadopoulos, Maria Chierichetti
Axient Internship Program
Axient LLC
$60,000

Department of Biomedical Engineering

Patrick Jurney
Nicotine Induced Gene-Environment Interactions in AAA Disease
Palo Alto Veterans Institute for Research
$6,623

Department of Chemical and Materials Engineering

Katy Kao
Adaptive Evolution of Candida Biofilms
National Institutes of Health
$146,500

Gautam Kumar
Closed-Loop Deep Brain Stimulation for Controlling Abnormal Neural Synchronization and Oscillations
National Institutes of Health
$146,500

Dahyun Oh
Center for High Precision Patterning Science (CHiPPS)
Lawrence Berkeley National Laboratory
$112,000

Michael Oye
Community Services '24-'25
City of San José
$100,000

Anand Ramasubramanian, Sang-joon Lee
Mechanophenotyping RBC subpopulations in ME/CFS
National Institutes of Health
$432,431

Liat Rosenfeld, Christopher Lew
Carbon Capture and Sequestration in Zeolite-Water Mixture
American Chemical Society
$70,000

Liat Rosenfeld, David Parent
SPARTAN SPARK: Stimulating Passion, Advancement, Research, and Knowledge for Next-generation Engineers in Advanced Energy Systems
U.S. Department of Energy
$698,642

Department of Civil and Environmental Engineering

Joseph Coe
Interpretation of the Wissahickon Formation
Temple University
$82,096

Department of Computer Engineering

Gheorghi Guzun
CAREER: Scalable and Adaptable Sparsity-Driven Methods for More Efficient AI Systems
U.S. National Science Foundation
$108,745

Department of Electrical Engineering

Shrikant Jadhav
An HPC Platform for Real-Time Environment Monitoring Using Machine Learning
Savannah River National Laboratory
$300,000

Hiu Yung Wong
Collaborative Research: Elements: Empowering Semiconductor Device Research and Education through Integrated Machine Learning Models and Database
U.S. National Science Foundation
$215,931

GAA-FET SRAM Radiation Hardness Projection
Sandia National Laboratories
$75,000

Hiu Yung Wong, David Parent
FuSe2 Topic 2: Heterogenous Integration of Wide-Bandgap Microelectronics & Power Electronics for Efficient Power Delivery to AI Processors in Data Centers
Virginia Tech
$200,260

Department of Industrial and Systems Engineering

Anil R. Kumar
Confidential
Confidential
$66,353

Respiratory Protection for Wildland Firefighters
University of California, Los Angeles
$108,588

Hongrui Liu
Proposal to Test/Research Market Clearing Systems For ISO New England (2025)
ISO New England
$25,000

Department of Mechanical Engineering

Lin Jiang, Mahima Agumbe Suresh, Behin Elahi, Yue Luo, Lesther Papa
CISE MSI: RDP: IIS: HCC: Demonstrating Mixed Reality and Edge Computing in Human-Robot Interaction and Collaboration Considering Human Factors
U.S. National Science Foundation
$599,969

Hohyun Lee
Effect of Distributed Energy Resources on Fairness of Utility Rate for Grid-Interactive Residential Buildings
U.S. Department of Commerce
$138,779

College of Health and Human Sciences

Dean's Office

Joe Grzywacz
Integrative Pathways to Health and Illness
University of Wisconsin–Madison
$64,346

Department of Audiology

Anusha Yellamsetty
Clinical Validation of the Samsung over-the-counter (OTC) Self-Fitting Hearing Aid Feature
Samsung Research America
$371,090

Department of Kinesiology

Jennifer Schachner
Older Americans Act Funding - Sourcewise -Timpany Center- San José State University Research Foundation
Sourcewise
$85,407

Department of Public Health

Vicky Gomez
Status of Latinas in Silicon Valley
Latina Coalition of Silicon Valley
$77,900

School of Social Work

Moctezuma García
Project COMPA (Comunidades Ofreciendo MÃ¡s Prevenciones Agradables)
Board of Regents, University of California
$10,000

Peter A. Lee
Adult Protective Services MSW Training Program FY24-25
California Department of Social Services
$2,800,000

Behavioral Health Social Work Training and Fellowship Program (PBH)
California Department of Health Care Access and Information
$24,945,165

Behavioral Health Workforce Education and Training (BHWET) Program
Health Resources and Services Administration
$480,000

MSW Program, School of Social Work, San José State University
California Department of Health Care Access and Information
$1,330,000

San José State University BASW Mental Health Scholarship Program (MHSP)
Santa Clara County
$150,000

Title IV-E Child Welfare Training 2024-2025
University of California, Davis
$2,362,253

Peter A. Lee, Sadhna Diwan
Certified Wellness Coach HCAI - Designated Education Program
The California State University System
$312,500

Jennifer Wolf, Meekyung Han
Program Evaluation of the Santa Clara County Department of Family and Children's Services Mandated Online Reporting Pilot
Santa Clara County
$50,000

College of Humanities and the Arts

Dean's Office

Shannon Miller, Ann Agee, Christina Mune
Grounding the Digital Humanities at San José State University
National Endowment for the Humanities
$49,043

Department of English and Comparative Literature

Bronwyn LaMay, Jane Gillmore, Scott Jarvie, Andy Robinson
San José Area Writing Project 2024-2025 - ESSA Federal
Board of Regents, University of California
$75,595

Bronwyn Lamay, Scott Jarvie
San José Area Writing Project 2022-2023 - State
Board of Regents, University of California
$36,506

College of Science

Dean's Office

Shelley Cargill
SJSU MESA College Prep Program - The Foundation for Hispanic Education 22-25
Foundation for Hispanic Education
$11,821

SJSU MESA Schools Program - Bridges Academy (of Franklin McKinley School District)
Franklin-McKinley School District
$5,628

MESA College Prep Program AY 2024-2025
Board of Regents, University of California
$270,000

Julia Gaudinski
California Fifth Climate Change Assessment Central Coast Regional Synthesis Report
University of California, Santa Cruz
$13,999

Michael Kaufman
Astronomical Infrared Bands as Calibrated Probes of Astrophysical Conditions in the JWST-era with The NASA Ames PAH IR Spectroscopic Database
National Aeronautics and Space Administration
$731,550

Virginia Lehmkuhl Dakhwe
Scaling a Promising Computer Science Supplementary Authorization Program
Santa Clara County Office of Education
$50,000

Miri VanHoven
Probing Sleep and Memory as Targets for Rejuvenation
University of California, San Francisco
$100,792

The Effects of Stimulation and Sleep on Neural Circuit Connections
University of California, San Francisco
$211,763

Department of Biological Sciences

Walter Adams
Mechanism of Toxin Mediated Damage to the Lung Epithelium during S. Pneumoniae Infection
National Institutes of Health
$146,500

Bree Grillo-Hill
Increased Intracellular pH Promotes Cancer Cell Behaviors
National Institutes of Health
$146,500

Spinning Disk Confocal Microscope
National Institutes of Health
$248,443

Stem Cell Internships in Laboratory-based Learning (SCILL) Continue to Expand the Scientific Workforce for Stem Cells Research and Therapies
CA Inst of Regenerative Medicine
$721,300

Sonia Singhal
Effects of The Rate of Environmental Change on Mutational Patterns and Evolutionary Constraints
National Institutes of Health
$366,250

Karen Singmaster
CSU-LSAMP STEM Pathways & Research Alliance II
U.S. National Science Foundation
$23,534

CSU-LSAMP STEM Pathways & Research Alliance II
California State University, Sacramento
$70,000

Kate Wilkin
Remote Sensing Applications to Detect Home Ignition Zone Fire Mitigations in Northern California
California Department of Forestry and Fire Protection
$80,030

SJSU Prescribed Fire Monitoring and Research Program in the South Bay and Central Coast
California Department of Forestry and Fire Protection
$127,965

Katherine Wilkinson
Molecular Mediators of Muscle Spindle Mechanosensation
National Institutes of Health
$131,850

The Electrical Basis of Proprioceptive Signaling and Sensory-Driven Motor Behavior
University of California, Davis
$149,414

Validation of MAPK14 as a Target for Chemotherapy-Induced Peripheral Neuropathy Prevention or Treatment
Stanford University
$15,047

Department of Chemistry

Philip Dirlam
Broadening Accessibility & Training To Emerging Researchers for Innovative Energy Storage (BATTERIES)
California State University, Chico
$187,500

Nicholas Esker
HIPPO: Horizon-broadening Isotope Production Pipeline Opportunities
Texas A&M University
$18,229

Multidisciplinary Training Experience in Nuclear Science "Mt. ENS"
U.S. Department of Energy
$139,263

Multidisciplinary Training Experience in Nuclear Science "Mt. ENS"
Lawrence Livermore National Laboratory
$6,000

Gianmarc Grazioli
Probing Amyloid Fibril Self-Assembly with Network Hamiltonian Simulations in Explicit Space
National Institutes of Health
$178,937

Madalyn Radlauer, Philip Dirlam, Laura Miller Conrad, Gilles Muller
MRI: Track 1 Acquisition of a 500 MHz NMR Spectrometer to Enhance Research and Student Training Capabilities at SJSU and Neighboring Institutions
U.S. National Science Foundation
$811,965

Roger Terrill
Academic Collaboration w/ LQDX
LQDX
$40,000

Annalise Van Wyngarden
Nuclear Chemistry Summer School (NCSS)
City University of New York
$270,271

Ningkun Wang
Elucidating the Mechanism for Allosteric Regulation of SIRT1 through the N-Terminal Region
National Institutes of Health
$246,309

Department of Geology

Kimberly Blisniuk
IPA
IPA
$268,452

Elizabeth Madden
EMBRACE-EAR-Seed: Transformative Research Experiences in Earthquake Science
U.S. National Science Foundation
$171,824

Energy budget analyses of scenario earthquake ruptures at Cascadia
University of Oregon
$33,529

IPA
IPA
$30,000

Elizabeth Madden, Kimberly Blisniuk
Enhancing Research and Education in High Resolution Active Remote Sensing Technology and Landscape Modeling
Department of Defense
$771,657

Carlie Pietsch, Nathaniel Bogie, Ellen Metzger, Leanne Teruya
Geoscience for Society: Preparing Students for Careers in Climate, Clean Energy, and Resource Management
U.S. National Science Foundation
$1,798,726

Ryan Portner
Collaborative Research: Hunga Temporary
U.S. National Science Foundation
$95,701

Siri Veland
NNA Track 1: Collaborative Research : Navigating Convergent Pressures on Artic Development
Brown University
$91,003

Department of Mathematics and Statistics

Kyle Hambrook
RUI: Fourier Restriction and Fourier Dimension for Fractals
U.S. National Science Foundation
$150,000

Tim Hsu, Maria Cayco-Gajic
Cost-effective, Bespoke Adaptive Tutoring using Open Source Tools and GenAI
University of California, Berkeley
$10,020

Ferdinand Rivera, Lisa Simpson
Developing 21st Century Inclusive- and Mathematical Literacy-Driven Middle School and High School Mathematics Teachers
U.S. National Science Foundation
$262,402

Julie Spitzer
Santa Clara Valley Mathematics Project FY 24-25 (CSMP State Funds)
Board of Regents, University of California
$20,000

Santa Clara Valley Mathematics Project 24-25 (ESSA federal funds)
Board of Regents, University of California
$24,223

Yan Zhang, Dashiell Fryer
Timing Games in Auctions and Blockchains
Ethereum Foundation
$93,666

Department of Meteorology and Climate Science

Craig Clements
Center: Addition of WPI as a Partner Site to WIRC
Worcester Polytechnic Institute
$97,800

Fire Weather and Plume Dynamics Data Collection during FASMEE
U.S. Forest Service
$199,905

Craig Clements, Julia Gaudinski
FireSense Implementation Team: Drs. Clements and Gaudinski from the Wildfire Interdisciplinary Research Center at San José State University
National Aeronautics and Space Administration
$166,910

Craig Clements, Adam Kochanski
Fire Weather Modeling Research
Pacific Gas and Electric Company
$390,000

Craig Clements, Amanda Stasiewicz, Adam Kochanski, Kate Wilkin
IUCRC Phase I: San José State University: Wildfire Interdisciplinary Research Center (WIRC)
U.S. National Science Foundation
$401,805

Eugene Cordero, Ellen Metzger
Science Roots: Growing Student Futures through GenAI Enhanced Project-Based Learning using Green Ninja
U.S. Department of Education
$10,000,000

Minghui Diao
California Community and Earth-system Integrated Climate Resilience Center (CalCEI CRC)
U.S. Department of Energy
$320,721

Examining Climate Impacts of Cirrus Clouds through Past, Present and Future NASA Airborne Campaigns
National Aeronautics and Space Administration
$80,498

Adam Kochanski
Coupled Interactive Forecasting of Wildfire Potential and Active Fire Impacts for Improved Wildland Fire Decision Making
Colorado State University
$96,706

San José State University Research Foundation (SJSURF) Fuels Modeling and Enhanced Data Input
San Diego Gas & Electric
$622,313

Technology Development to Integrate Innovative Observation Capabilities into Coupled Wildfire Models for Improved Active Fire Forecasting
Colorado State University
$370,090

Towards a NU-WRF based Mega Wildfire Digital Twin: Smoke Transport Impact Scenarios on Air Quality, Cardiopulmonary Disease and Regional Deforestation
University of Maryland, Baltimore County
$60,189

Qian Tan
The NOAA Cooperative Science Center in Atmospheric Sciences and Meteorology
Howard University
$120,230

Department of Physics and Astronomy

Kassahun Betre
LEAPS-MPS: Investigating Emergent Gravity in Combinatorial Quantum Systems
U.S. National Science Foundation
$5,000

Kassahun Betre, Curtis Asplund
A Transformative Master's Program in High Energy Physics
U.S. Department of Energy
$325,000

Peter Beyersdorf, Neil Switz, Ranko Heindl, Christopher Smallwood
Modernizing Introductory Physics Laboratories for Tomorrows Technology Workforce
U.S. National Science Foundation
$161,977

Hilary Hurst
IPA
IPA
$479,586

Ehsan Khatami
AI and Data Science Enabled Predictive Modeling of Collective Phenomena in Strongly Correlated Quantum Materials
University of Tennessee
$110,687

Gina Quan
Transfer Advocacy Groups: Transforming Culture to Support Transfer Students of Color in Undergraduate Physics
U.S. National Science Foundation
$276,335

Gina Quan, Brianne Gutmann
Collaborative Research: Evaluating Access: How a Multi-Institutional Network Promotes Equity and Cultural Change Through Expanding Student Voice
U.S. National Science Foundation
$39,919

Aaron Romanowsky
A Critical Test for Dark Matter in Dwarf Galaxies of the NGC 1052 Group
Jet Propulsion Laboratory
$16,300

Ken Wharton
Bay Area Accelerator Research Traineeship (BAART)
California State University, East Bay
$102,660

Moss Landing Marine Laboratories

Ivano Aiello
Elkhorn Slough Foundation Project - Advanced Geospatial and Geotechnical Services and Development of Materials to Inform On-Going Estuarine
Elkhorn Slough Foundation
$40,000

ESNERR History and Topography to Improve Decision-making for Estuary Restoration (HiTIDER)
Elkhorn Slough Foundation
$417,080

Dustin Carroll
A Catchment to Coast Paradigm: Impact of Spatially and Temporally Varying Nutrient and Freshwater Fluxes on the Gulf of Mexico Dead Zone
National Aeronautics and Space Administration
$17,518

Closing the Carbon Cycle Loop: Quantifying Land-to-Sea Carbon Fluxes
National Aeronautics and Space Administration
$197,111

"ECCO-Darwin Model Exploration of Physical and Biogeochemical Interactions in the Land-Sea Continuum"
Jet Propulsion Laboratory
$109,000

Estimating the Circulation and Climate of the Ocean (ECCO)
Jet Propulsion Laboratory
$104,856

Quantifying Arctic Marine Ecosystem Tipping Points_Carroll
Jet Propulsion Laboratory
$41,809

Thomas Connolly
Understanding the Physical Processes Above and Below the Air-Sea Interface
Naval Postgraduate School
$149,060

Thomas Connolly, Maxime Grand, Holly Bowers
CeNCOOS Partnership: Information Solutions to Power Healthy and Prosperous Oceanic, Coastal and Estuarine Communities
Monterey Bay Aquarium Research Institute
$69,206

Michael Feinholz, Mark Yarbrough
Marine Optical Buoy (MOBY) Operations and Technology Refresh
University of Miami
$2,128,277

Luke Gardner
PCOR Abalone Restoration
The Bay Foundation Santa Monica
$206,272

Western Regional Aquaculture Center-33rd Annual Work Plan FY 23
University of Washington
$19,404

White Abalone Restoration Production and Research
U.S. Department of Commerce
$60,000

Michael Graham, Scott Hamilton
Universal Hatchery System for Developing New Seaweed Strains for Land-Based Aquaculture Production
University of California, San Diego
$76,608

Scott Hamilton
Accelerating Bull Kelp Ecosystem Recovery in a Recently Deforested Location in Northern California by Using a Strategic Sequence of Restoration
The Nature Conservancy
$416,901

Evaluating the Performance of California's MPA Network through the Lens of Sandy Beach and Surf Zone Ecosystems
University of California, Santa Barbara
$77,903

SJSU: California Collaborative Fisheries Research Program: Monitoring and Evaluation of California Marine Protected Areas
San José State University
$570,000

James Harvey
Estuarine Wetland and Nearshore Ecology Studies along the Pacific Flyway
U.S. Geological Survey
$156,800

Suisun Marsh Waterfowl Science Investigations: Data Synthesis and Manuscript Preparation
U.S. Geological Survey
$48,970

Wesley Heim
2025 Surface Water Monitoring
Central Coast Water Quality Preservation, Inc.
$115,632

PG&E Diablo Canyon Power Plant Project
Pacific Gas and Electric Company
$368,580

Santa Monica Bay Post-Fire Sediment Sampling Project
California State Water Resources Control Board
$44,416

Support for the 2024 RMP Status and Trends Monitoring Effort: Processing and Analysis of Sport Fish Samples
San Francisco Estuary Institute
$66,315

Surface Water Ambient Monitoring Program (SWAMP) 2025
California State Water Resources Control Board
$1,267,914

Michael Kaufman, Dustin Carroll
Sub-Project: Marine Carbon Dioxide Removal (via Application for a renewal of the ARC-CREST Cooperative Agreement M0230)
Bay Area Environmental Research Institute
$63,293

Deborah Maloney
NSF GRFP - MHess
U.S. National Science Foundation
$53,000

Birgitte McDonald
Foundational Support of Marine Mammal Stranding in Central California
University of California, Santa Cruz
$19,770

State Funding to Support Stranding Response - 2024
Marine Mammal Center
$65,357

Kevin O'Connor
Building Capacity for Assessing Wetland Recovery Efforts in Supporting Regional Wetland Health and Resiliency
California State Coastal Conservancy
$6,104

Carr Lake GHG Emissions and Carbon Sequestration
Big Sur Land Trust
$140,720

Castroville to the Coast Phase 1
California Marine Sanctuary Foundation
$312,272

City of Salinas PSA-CRAM Assessments
Salinas Valley Basin Groundwater Sustainability Agency
$29,904

Development of a Coastal Wetland (L3) Functional Assessment Dashboard and Toolkit to Support Project Prioritization and Evaluation
Southern California Coastal Water Research Project
$24,277

Enhancing Dune Habitat and Ecosystem Function within Northern Monterey County State Parks
California Department of Fish and Wildlife
$467,728

GDE Identification, Mapping and Field Verification, 2nd Round
Salinas Valley Basin Groundwater Sustainability Agency
$117,595

Groundwater Dependent Ecosystem Monitoring and Assessment
Marina Coast Water District
$31,939

(R/MPA-50C) California Estuary MPA Monitoring Program
University of California, San Diego
$2,188,234

Regional Adaptation for Climate Resilience of Monterey Bay Coastal Communities
California Marine Sanctuary Foundation
$1,534,646

Resilient Pajaro Estuary Program
Land Trust of Santa Cruz County
$109,664

Statewide Wetland EcoAtlas Training Program
San Francisco Estuary Institute
$39,750

Marco Sigala
2022/2023 TNA Reporting
Central Coast Water Quality Preservation, Inc.
$122,000

Delta RMP QA Services
MLJ Environmental
$4,048

National Coastal Condition Assessment 2025: Field Sampling
Great Lakes Environmental Center
$248,199

Morro Bay Foundation Data Navigator Phase 4
Bay Foundation of Morro Bay
$166,625

Sarah Smith
Do Rhizosolenia Mats Obtain N from Cryptic Nitrogen-Fixing Microbes?
U.S. National Science Foundation
$205,943

Quantifying Arctic Marine Ecosystem Tipping Points_Smith
Jet Propulsion Laboratory
$37,837

Nathan Spindel
NSpindel Postdoctoral Fellowship: OCE-PRF: Scaling Up Herbivore Holobiont Physiology from Genes to Populations across a Tropical Upwelling Gradient
U.S. National Science Foundation
$20,057

Alison Stimpert
Data Management for the US Animal Telemetry Network
Office of Naval Research
$50,273

Integration and Field Evaluation of the Next Generation High-Fidelity Sound and Movement Tags to Investigate Behavioral Response
University of Michigan
$18,050

Edward Thornton
ROXSI: ROcky shores eXperiments and SImulations- Thornton Portion
University of California, San Diego
$78,000

Michael Wood
IS2AD: Using ICESat-2 Observations to Reduce Uncertainty in Future Ice Sheet Model Projections
Dartmouth College
$36,954

Research Opportunities in Space and Earth Science (ROSES)
Jet Propulsion Laboratory
$287,722

Mark Yarbrough, Michael Feinholz
Implementation of MarONet for Support of OCI/PACE Vicarious Calibration
University of Miami
$160,643

College of Social Sciences

Dean's Office

Lois Takahashi
Transgender Health/Housing/HIV Equity Project (T.H3.E. Project): Ending the Transgender HIV Epidemic
Board of Regents, University of California
$877,590

Department of Anthropology

Melissa Beresford
CAREER: Moral Economies in Water Markets: Implications for Understanding Human Responses to Water Insecurity in Market-Driven Economies
U.S. National Science Foundation
$112,983

Department of Communication Studies

Deanna Fassett
Transforming Student Experience and Success in Gateway STEM Courses: Anti-Racist Equity-Minded Teaching and Learning
California State University, Stanislaus
$35,173

Marie Haverfield
IPA
IPA
$45,000

Matthew Spangler, Sukanya Chakrabarti
The Immigrant Experience in California through Literature and History
National Endowment for the Humanities
$171,776

Department of Environmental Studies

Costanza Rampini
Resilient and Equitable Urban Stream Corridors
University of California, Davis
$247,303

Lynne Trulio
RCN-UBE: San Francisco Bay Research Coordination Network for Student Opportunities in Avian Research (SOAR) to Enhance STEM Education and Assess Urban Impacts on Avian Ecology
Stanford University
$8,100

Department of Justice Studies

Margaret Stevenson
Digital Literacy Class Support Request
Santa Clara County
$69,955

California Community Reinvestment Grants Program - Record Clearance Project Legal Services
California Community Reinvestment Corporation
$1,414,875

San José State University Research Foundation (SJSURF) Service Navigation-2024-2025
Santa Clara County
$744,445

Department of Psychology

Cassie Hilditch
2024 Fatigue Management Training for San Francisco Bar Pilots
California Maritime Academy
$6,000

Human Factors Considerations and Emerging Trends Associated with Helicopter Air Ambulance Operations
Cherokee Nation
$40,000

Sean Laraway
Human Systems Integration: Coll. Human Factors Research to Improve Safety, Efficiency & Reliability of NASA's Aeronautics & Space Missions: Phase 2
National Aeronautics and Space Administration
$15,038,031

Randall Mumaw
Simulator Training to Increase Pilots' Awareness of Cognitive Biases
Federal Aviation Administration
$444,015

Susan Snycerski
Future Vertical Lift: Collaborative Research on Flight Control, Autonomous Rotorcraft, and Human-Systems Interface Design: Phase 2
National Aeronautics and Space Administration
$3,758,101

Implementing Macroergonomics for Increasing the Safe, Effective, and Efficient Operation of the Entry Systems and Technology Division's High Enthalpy Facilities
National Aeronautics and Space Administration
$186,523

Susan Snycerski, Ashwani Padthe
Dragonfly Collaboration
The Johns Hopkins University
$46,186

Shu-Chieh Wu
Lessening Impact of Interface Inconsistency through Goal-Directed Crew Operations
National Aeronautics and Space Administration
$163,000

Connie L. Lurie College of Education

Department of Child and Adolescent Development

Maria Fusaro, David Whitenack, Andrea Golloher, Emily Slusser
TK Equity Cohort Project
FIRST 5 Santa Clara County
$400,923

Cara Maffini-Pham
SJSU Healthy Development Community Clinic (HDCC) Rainbow FLASH: Families Learning and Supporting Health
Heluna Health
$750,000

Cara Maffini-Pham, Michael Dao
Promoting and Protecting Health Equity in the Cadillac Community
Santa Clara County
$150,000

Robert Marx
Building EPIC-Health: An Empowerment Program for LGBTQ+ Students
Boston College
$95,719

Ellen Middaugh, Mark Felton
Enfranchised: Fostering Civic Empowerment in a Digital World
U.S. Department of Education
$432,096

Emily Slusser, Andrea Golloher, Maria Fusaro
Educare SV Local Evaluation Partner
Santa Clara County Office of Education
$241,666

Department of Communicative Disorders and Sciences

Eun-Ae Choi, Pei-tzu Tsai, Wendy Quach
Project INCLUDE: Integrating Neurodiversity and Cultural-Linguistic Understanding and Differences in Education
U.S. Department of Education
$190,628

Department of Special Education

Sudha Krishnan, Andrea Golloher
Project Mosaic
U.S. Department of Education
$250,000

Matthew Love
CCLA: California Coalition for Learning Acceleration
Santa Clara County Office of Education
$50,000

Department of Teacher Education

Kathryn Ribay
Exploring and Integrating Environmental Justice Through Water
IgnitED
$5,000

Tammie Visintainer
CAREER: Transforming Science Teaching & Learning in K-12 Schools: Empowering Teachers & Students as Climate Justice Action Researchers & Change Agents
U.S. National Science Foundation
$387,074

Division of Research & Innovation

Office of Innovation & Corporate Partnerships

Abby Queale
CoGenerate Encore Fellowship
The Fedcap Group
$25,000

SBDC 2024 - Silicon Valley
Humboldt State University
$1,800

CALOSBA TAP 2024-25 Silicon Valley
Cal Poly Humboldt Sponsored Programs Foundation
$278,415

SBDC 2025 - Silicon Valley
Humboldt State University
$250,000

Lucas College and Graduate School of Business

Dean's Office

Karen Philbrick
BART Leadership Academy: 2024-25
Bay Area Rapid Transit
$99,000

MTC Leadership Academy Training
Metropolitan Transportation Commission
$550,000

Karen Philbrick, Hilary Nixon
The Mineta Consortium for Equitable, Efficient, and Sustainable Transportation (MCEEST)
Department of Transportation
$1,965,180

MTI Database on Terrorist and Serious Criminal Attacks against Public Surface Transportation: 2022
Transportation Security Administration
$195,067

Leadership Academy: Building the Transportation Workforce Pipeline
University of South Florida
$373,869

CSUTC: Transportation Research and Transportation-Related Workforce Education, Training and Development
The California State University System
$2,000,000

School of Management

Elisa Mattarelli, Sumita Raghuram
Multiple Team Membership (MTM) through Technology: A Path towards Individual and Team Wellbeing?
U.S. National Science Foundation
$338,000

Information Technology

Bob Lim, Feruza Amirkulova, Ehsan Khatami
Research Infrastructure: CC Compute-Campus: A campus-wide computing resource for research andteaching at San José State University*
U.S. National Science Foundation
$628,773

Office of the Provost

Academic Affairs

Yingjie Liu, Wencen Wu, Magdalini Eirinaki
SpartanAI: Elevating Course Design with Faculty and Student-Centric AI Agent
Foundation for California Community Colleges
$150,000

Yingjie Liu, Wencen Wu, Magdalini Eirinaki
HSI Pilot Project: CollaborAIte: Empowering Faculty to Enhance Belonging, Retention, and Collaborative Learning Skills through AI Literacy Education
U.S. National Science Foundation
$200,000

Division of Student Affairs

Maria Cruz
ASPIRE (Student Support Services) - San José State University
U.S. Department of Education
$530,167

Maria Cruz, Martha Toral
The Ronald E. McNair Post-baccalaureate Achievement Program
U.S. Department of Education
$300,838

Provost's Office

Vincent Del Casino, Feruza Amirkulova
ADVANCE Partnership: Kindling Inter-University Networks for Diverse (KIND) Engineering Faculty Advancement in the The California State University System
California State University, Fresno
$25,000

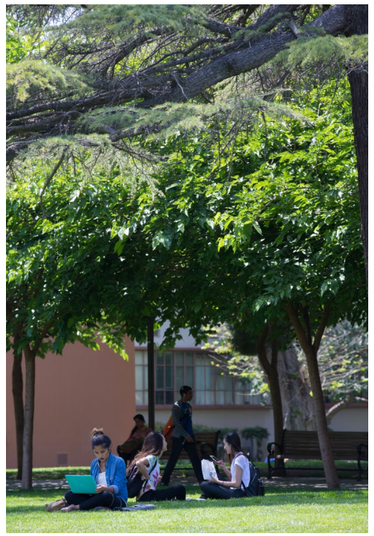
Vincent Del Casino, David Parent, Liat Rosenfeld
Project Engineering Success: Increasing Hispanic Student Success in Engineering at San José State University, San José City College & Gavilan College
U.S. Department of Education
$999,997

Shonda Goward, Joel Morales
Spartan Phalanx: Holistic, Support to Retain Students on Academic Probation
U.S. Department of Education
$427,195

Undergraduate Studies

Elena Klaw, Andrea Tully
2024 #CaliforniansForAll College Corps (Non-AB 540)
CaliforniaVolunteers
$1,203,738

2024 #CaliforniansForAll College Corps (AB 540)
CaliforniaVolunteers
$130,470



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