

MESA works! *Readying Students to Join California's Technical Workforce*

MESA builds student success through:

- Academic support based on high standards
- Individual counseling to ensure that college prerequisites and transfer/college graduation requirements are met
- Group learning techniques that reinforce math and science concepts
- Industry involvement in activities and strategic planning
- Reinforcement of California math and science standards through hands-on projects
- Building supportive student communities
- Professional development tailored for math and science teachers in low-performing schools (scoring in the lowest two quintiles of the Academic Performance Index).
- Networks of parents, educators, industry leaders and community resources

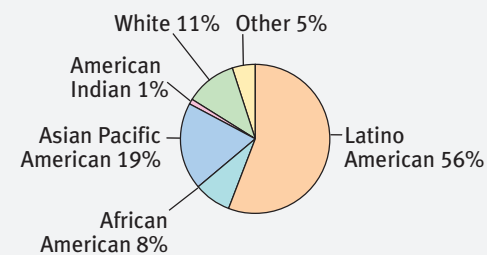


WHO IS MESA?

Students served

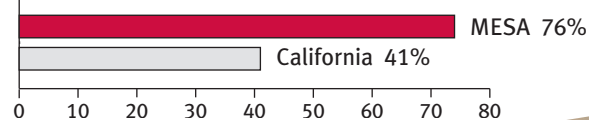
	MESA Students	MESA Centers
K-12*	20,299	19
Community College	4,707	36
University	3,186	12
Total	28,192	67

*164 high schools, 174 middle & junior highs, 55 elementary schools

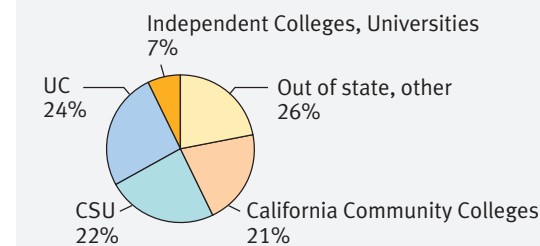


MESA AND EDUCATION DESTINATIONS

Number of high school seniors who go to college immediately after graduation



Where MESA high school grads go



Top campus destinations of MESA high school grads

1. UC Irvine
2. UC Berkeley
3. UC Davis
4. UCLA
5. UC San Diego

Top campus destinations for MESA transfer students

1. UC Davis
2. UC Berkeley
3. Cal Poly SLO
4. UC Santa Cruz and UCLA (tie)
5. San Jose State University

MESA AND STEM (SCIENCE, TECHNOLOGY, ENGINEERING AND MATH)

53% of MESA pre-college students go to college in STEM majors

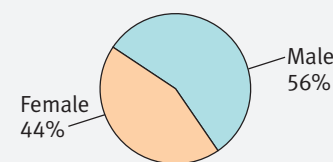
97% of MESA community college students transfer to four-year institutions in STEM majors

Top transfer majors of MESA community college students

1. Engineering
2. Life Sciences
3. Mathematics
4. Biochemistry
5. Computer Science

Top degree subjects of MESA engineering and computer science university program graduates

1. Civil Engineering
2. Mechanical Engineering
3. Electrical Engineering
4. Computer Science
5. Computer Engineering



MESA provides a solution

MESA helps California restore its ability to produce the educated workforce it needs to stay competitive.

- In 2011, among all states, only Mississippi ranked lower than California in 8th grade math and science proficiency.
- Yet in California—the nation's technology and innovation center—only 10% of the state's college degrees and certificates were earned in STEM fields in 2009, with Latino, African American and American Indian communities disproportionately underrepresented.

To maintain its economic health, California must tap into the talents of all its students. Through high standards and expectations, MESA prepares educationally disadvantaged students to become successful STEM graduates.

All data sources are available from the MESA Statewide Office.



Recent Industry and Foundation Partners

Aero Institute • Agilent Foundation • Ambient Control Systems, Inc. • AMD • Anza-Borrego Desert State Park • Applied Materials • ARMA Design • Assure Controls, Inc. • AT&T • Atkins Global • BAE Systems • Bayer USA • BDS Engineering, Inc. • Bechtel • Berryman & Henigar • Bio4Front, Inc. • Black & Veatch • Boeing • Boston Scientific Foundation • California Employment Development Department • California Workforce Investment Board • Caltrans • Carrier Johnson • Cedarville Rancheria • Central Intelligence Agency • Chevron • Cisco • City of Los Angeles Bureau of Sanitation • Clark Construction • Comunidad Latina • County of San Diego, Department of Public Works • CTB McGraw-Hill • Cubic Corporation • CValdo Corporation • Dow Chemical Company • East Bay Community Foundation • EBMUD • Edison International • EMC • EMC2 • Engineering Research Center for Sensorimotor Neural Engineering • Enphase Energy • ExxonMobil • Fetzer Vineyards • Fleet Readiness Center Southwest • Fqubed, Inc. • GHD • General Electric Company • Goodrich Aerostructures • Granite Construction • Hamilton Sundstrand • Herrero Boldt Contractors Inc. • Hewlett-Packard • High Altitude Tree Services • Hindu Community and Cultural Center • Hispanic College Fund • Hispanic Foundation of Silicon Valley • Hydroelectric Dams and Powerhouses on the Pit River • IBM • Imperial Irrigation District • Infrastructure Engineering Corp. • Intel • Intuit • Irene S. Scully Family Foundation • JPL • Kennedy-Jenks Engineering Consultants • Kleinfelder • Kyocera America, Inc. • Lam Research • Lawrence Livermore National Laboratory • LEE & RO, Inc. • LG Electronics Mobile • Lockheed Martin • Malcolm Pirnie • Marin Community Foundation • Medtronic • Mendocino/Lake Engineers • Microsoft • Motorola • MWH Global, Inc. • NASA • Nasland Engineering • NAVAIR Depot—North Island • Naviscan, Inc. • Navy Human Resources Center • Northrop Grumman • PG&E • Pacific Bell • Panda Restaurant Group • Paramount Signs • Parenti & Associates Insurance • Parsons • Pattern Energy Group • Pit River Tribe • Burney • Prodigy • Professional Engineers in California Government (PECG) • Project Design Consultants • Qualcomm, Inc. • Ray's Market • Raytheon • RBF Consulting • REMEC, Inc. • Retch Systems LLC • Rick Engineering Company • Rudolph & Sletten • Saatchi and Associates, LLC • SACNAS • SAIC • Salk Institute • Samsung • San Diego Coastkeeper • San Diego Gas & Electric Company • San Diego Natural History Museum • San Diego Regional Water Quality Control Board • San Diego Retired Senior Volunteer Patrol (RSVP) • San Diego Zoo • Santa Ana College Foundation • Santa Clara Valley Water District • Santarus, Inc. • Savings Bank of Mendocino County • Score-Scripps Health Institute • Scripps Research Institute • Sempra Energy • Sempra Energy Foundation • SFSU: Bridges to the Baccalaureate • Silicon Valley Community Foundation • SMUD • Solar Turbines, Inc. • Sony Electronics • Southern California Biotechnology Center • Southern California Gas • Southwest Water Company • Space Naval Warfare Systems Command (SPAWAR) • Spectrum Scientific • Spring Rivers Ecological Services • SSC Pacific—San Diego • Stanford Emerging Frontiers in Research Innovation (EFRI) Labs • State Farm Insurance • Suburban Water Systems • Sutter Health FPD • Symantec • TE Connectivity Foundation • Technische Universität Hamburg • The Growth Sector • Thermo Fisher Scientific • Toyota Foundation • UC Hopland Research and Extension Center • Ukiah Caltrans • Union Bank • Unisys Corporation • United Launch Alliance • United States Navy • URS Corp. • USFS—Modoc • Vanir Construction Management • Vasquez & Company • Walt Disney Imagineering • Wells Fargo • Western Digital • Winzler & Kelly • Xerox

VISIT US AT MESA.UCOP.EDU

What is MESA?

Since 1970, Mathematics, Engineering Science Achievement (MESA) has helped educationally disadvantaged students in California become engineers, scientists and other math-based professionals urgently needed by industry.

MESA provides a unique combination of enrichment activities, hands-on competitions, counseling, academic support, industry involvement and supportive community environment. Students are served at the pre-college, community college and university levels. MESA offerings are provided through a partnership of all the major public and private education systems in California and with industry.

Funded by the State of California, MESA is administered by the University of California, with funding allocated from UC and the California Community Colleges. MESA leverages its state funding to garner additional financial and resource support from private and public sources.

Whom does MESA serve?

Most MESA students are first in their families to attend college. Most are low-income and attend (or graduated from) low-performing schools. With MESA's support, these students excel in science, technology, engineering and math (STEM) studies—some of the most difficult academic subjects.

What makes MESA successful?

During its 42-year history, MESA has established benchmarks, identified best practices, and refined its model to ensure the most effective STEM program for its students. This continuous improvement approach has resulted in a highly successful model for STEM success.

MESA has received awards from the White House and the Ford Foundation and is a model for similar programs in more than a dozen states.



MESA CENTER LOCATIONS: UNIVERSITY OF CALIFORNIA • IRVINE • LOS ANGELES • RIVERSIDE • SANTA BARBARA • SANTA CRUZ • CALIFORNIA STATE UNIVERSITY • CHICO • EAST BAY • FRESNO • LONG BEACH • LOS ANGELES • SACRAMENTO • SAN DIEGO STATE UNIVERSITY • SAN FRANCISCO STATE UNIVERSITY • SAN JOSE STATE UNIVERSITY • SONOMA STATE UNIVERSITY • INDEPENDENT UNIVERSITIES • CHAPMAN UNIVERSITY • UNIVERSITY OF THE PACIFIC • UNIVERSITY OF SOUTHERN CALIFORNIA • COMMUNITY COLLEGES • ALLAN HANCOCK COLLEGE •



AMERICAN RIVER COLLEGE • BAKERSFIELD COLLEGE • BUTTE COLLEGE • CABRILLO COLLEGE • CAÑADA COLLEGE • CHABOT COLLEGE • CITY COLLEGE OF SAN FRANCISCO • COLLEGE OF THE CANYONS • COLLEGE OF THE DESERT • COLLEGE OF THE SEQUOIAS • COLLEGE OF THE SISKIYOUUS • CONTRA COSTA COLLEGE • COSUMNES RIVER COLLEGE • EAST LOS ANGELES COLLEGE •

EL CAMINO COLLEGE • GAVILAN COLLEGE • HARTNELL COLLEGE • LOS MEDANOS COLLEGE • MENDOCINO COLLEGE • MISSION COLLEGE • NAPA VALLEY COLLEGE • PASADENA CITY COLLEGE •



MESA works!



University of California
300 Lakeside Drive, 7th Floor
Oakland, CA 94612-3550
(510) 987-9337
<http://mesa.ucop.edu>

MESA Board of Directors

PRINCIPAL INVESTIGATOR
Henry T. Yang, UC Santa Barbara, Chancellor

CHAIR
Joseph M. Rivera, Southern California Gas Company, Gas Engineering Director

BOARD MEMBERS
Glenn E. Beltz, UC Santa Barbara • Yvette Gullatt, UC Office of the President • Philip "Scott" Hara, Tidelands Oil Production Company • William Harper, Pacific Gas & Electric Company • Delia Hernandez, AT&T • Andrew J. Kellock, IBM • Sally J. Montemayor Lenz, California Community Colleges Chancellor's Office • Ray Murillo, CSU Chancellor's Office • Robert E. Oakes, Association of Independent California Colleges and Universities • Oscar F. Porter, MESA • Joe Radding, California Department of Education • Linda Tiggs-Taylor, CSU Long Beach



To learn more about MESA, visit www.mesa.ucop.edu or scan this code.

