

**Presidential Summit
Inventory
Outreach, Recruitment and Retention Programs
Science, Engineering and Mathematics
2002-03**

The following is a listing of programs sponsored by individual community college and university campuses which are members of the Presidential Summit. The programs are classified by primary audience, i.e., pre-collegiate, community college transfer, etc., and by public higher education segment.

Pre-Collegiate Programs with SEM Orientation

Community College Programs

El Camino College

Program: Onizuka Space Science Day

Purpose: To provide middle and high school students an opportunity to visit the campus and participate in activities promoting science.

Students Served: 800

Funding Source: Onizuka Memorial Foundation; American Honda; College

Annual Budget: \$10,000

Contact: Barbara Perez, Dean, Natural Science, bperez@elcamino.edu.

East Los Angeles College

Program: Escalante Math and Science Program

Purpose: To raise the percentage of students who pass or are exempt from taking the Entry Level Mathematics (ELM) Placement Examination and who are able to begin college level math classes.

Students Served: 2,500

Source of Funding: Program 118

Annual Budget: \$350,034

Contact: Fernando M. Fernandez, Program Director, femanf@elac.edu.

California State University Programs

CSU, Dominguez Hills

Program: The Academy for Providing and Establishing Education Resources (PEER)

Purpose: Increase number of competitive college-bound students, especially minorities in sciences.

Students Served: 20

Funding source: CSU, Dominguez Hills

Annual Budget: \$7,500

Contact: Nicole Action, MSRP Coordinator, Nicole@cas.csudh.edu.

CSU Fullerton

Program: GEAR UP! Anaheim

Purpose: To serve an 850 student cohort from the 7th grade class of 1999 through graduation from high school in 2005; with a program goal of improving math abilities so that they may complete college-level mathematics requirements.

Students Served: 850; 500 graduates anticipated.

Funding Source: U.S. Department of Education

Annual Budget: \$2,015,365 over 5-year period.

Contact: Dr. Silas Abrego, Program Director, sabrego@fullerton.edu

Program: MESA Schools Program

Purpose: To create opportunities for educationally disadvantaged students, especially those from underrepresented groups, by providing curricular and extracurricular services to prepare students to enter professions requiring degrees in engineering and other mathematics-based fields. Six area high schools and nine intermediate schools are served.

Students Served: 1,400

Funding Source: University of California, fiscal agent

Annual Budget: \$421,000

Contact: Vonna Hammerschmitt, Program Director, vonna@ecs.fullerton.edu; Timothy Lancey, Principal Investigator, tlancey@fullerton.edu.

Program: TASEL-M (Teachers Assisting to Excel in Learning Mathematics)

Purpose: Established to aid teachers in the math departments of four local high schools and their feeder middle schools. Teachers are assisted by the grant to help their students to excel in mathematics.

Students Served: 20,000

Funding Source: NSF

Annual Budget: \$6.5 million over 5 years

Contact: Dr. David Pagni, Principal Investigator, dpagni@fullerton.edu.

Program: Upward Bound Math Science Program.

Purpose: To strengthen math and science skills of participating high school students through tutoring, special programs at the university, etc to encourage them to pursue degrees in these fields.

Students Served: 50 at 4 high schools

Funding Source: U.S. Department of Education

Annual Budget: \$218,545

Contact: Dr. Silas Abrego, Principal Investigator, sabrego@fullerton.edu; Patricia Bejarano-Vera, Project Director, pbejarano-vera@fullerton.edu.

CSU, Long Beach

Program: MESA Schools Program

Purpose: To create opportunities for disadvantaged students, especially those from underrepresented groups, to prepare for and enter professions requiring degrees in engineering and other mathematics-based fields.

Students Served: _____

Funding Source: MESA

Annual Budget: _____

Contact: Saba Yohannes-Reda, Director, sreda@csulb.edu

CSU, Los Angeles

Program: Health Careers Opportunity Program (HCOP)

Purpose: To facilitate the overall preparation and admission success of disadvantaged high school, community college and university students to include summer programs with stipends for high school students. A consortium of four area high schools, three community colleges, four medical schools, two physician assistant programs, and three hospital/community health organizations.

Students Served: _____

Funding Source: U.S. Dept. of Health and Human Services

Annual Budget: _____

Contact: Dr. Genaro Lopez, Dept. of Biology and Microbiology, glopez@calstatela.edu.

Program: Lewis Stokes Alliance for Minority Participation (LSAMP)

Purpose: To provide a summer science and mathematics-skill building program for graduating high school seniors who plan to attend CSULA, ELAC or PCC and ELAC and PCC students planning to attend CSULA.

Students Served: _____
Funding Source: NSF
Annual Budget: _____
Contact: Dr. Margaret Jefferson, Professor of Genetics, mjeffer@calstatela.edu

Program: MESA Schools Program
Purpose: To encourage early interest in science and mathematics through activities and projects and advising working with 18 secondary schools in the Los Angeles, Pasadena, and San Gabriel Unified School Districts.
Students Served: _____
Funding Source: MESA
Annual Budget: _____
Contract: Dr. Ethan Lipton, Associate Dean, College of Engineering, Computer Science and Technology, elipton@calstatela.edu.

Program: Modern Math Program
Purpose: To prepare middle and high school students for college-level entry with advanced skills in mathematics through workshops during the summer and the academic year.
Students Served: _____
Funding Source: U.S. Dept. of Education
Annual Budget: _____
Contact: Dr. Rudolfo Tamez, Professor of Mathematics, rtamez@calstatela.edu

Program: NASA Sharp Plus Research Apprenticeship Program
Purpose: To increase the number of students who will enter professional careers in mathematics, science and engineering by providing a summer program including internships for students from across the nation.
Students Served: 20
Funding Source: NASA
Annual Budget: _____
Contact: Dr. Lili Tabriz, Professor of Electrical Engineering, ltabriz@calstatela.edu.

Program: Pueblo Science-ASCEND-Science, Technology, Engineering Program (STEP) Up for Youth
Purpose: To provide a community-based informal science exploration and discovery program directed to 11-14 year-olds and their families.
Students Served: _____
Funding Source: NSF
Annual Budget: _____
Contact: Dr. Jewel Plummer-Cobb, Director/Jacquelyne Ramos, jramos5@cslanet.calstatela.edu.

Program: Project SEED
Purpose: To identify talented high school students with potential for success in chemistry and biochemistry research utilizing a summer research project.
Students Served: _____
Funding Source: NIH
Annual Budget: _____
Contact: Dr. Linda Tunsted, Principal Investigator/Lisa Bautista, Program Assistant, lbautis3@calstatela.edu.

Program: Structures Pointing and Controls Engineering (SPAC) (High School)
Purpose: High school component of NASA Fellowship Program of the 'space telescope' exploration program.
Students Served: _____
Funding Source: NASA; Industry
Annual Budget: _____
Contact: Dr. Helen Ryaciotaki-Boussalis, Professor of Electrical Engineering, hboussa@calstatela.edu.

Program: Summer Transportation Institute
Purpose: To provide experiences for high school students to explore the transportation field.
Students Served: _____
Funding Source: _____
Annual Budget: _____
Contact: Dr. Hassan Hashemian, Professor of Civil Engineering, hhashem@calstatela.edu.

Program: University Preparatory Program (UPP)
Purpose: To increase underrepresented minority student participation and success in college preparatory courses, and to increase the number of students who major in science, engineering and mathematics.
Students Served: 460 at two high schools; 150 at CSULA.
Funding Source: NASA
Annual Budget: _____
Contact: Florita Otto, Program Director, fotto@calstatela.edu.

Program: Upward Bound (Math/Science)
Purpose: To prepare high school students for post-secondary programs that lead to careers in math and science through tutoring, workshops and a summer program.
Students Served 40-50.
Funding Source: U.S. Dept. of Education
Annual Budget: _____
Contact: Maria Godoy, Program Director, mgodoy@calstatla.edu.

Program: Hispanic Educational Human Genome Project
Purpose: High school curriculum development to modify biological sciences curriculum for Hispanic students; provide materials for students and parents regarding human genome project.
Students Served: _____
Funding Source: U.S. Dept. of Energy
Annual Budget: _____
Contact: Dr. Margaret Jefferson, Professor of Genetics, mjeffer@calstatela.edu

CSU Northridge

Program: Engineering and Computer Science Career Days (each semester)
Purpose: To introduce high school juniors and seniors to the fields.
Students Served: 350
Funding source: College of Engineering and Computer Science
Annual Budget: \$2,000
Contact: Debbie van Alphen, Director of Recruitment, College of Engineering and Computer Science, dvanalphen@csun.edu

Program: SMAC/EOP Outreach Services; Middle School University Experience/High School University Experience
Purpose: To create an awareness of science and mathematics careers by providing access to science facilities, science and math faculty and current undergraduate science and math students.
Students Served: 150-200 (4 events)
Funding Source: SMAC/EOP
Annual Budget: \$793
Contact: Frankie Augustin, SMAC/EOP Director, frankline.augustin@csun.edu

Program: Mother and Daughter Science Day
Purpose: To create consciousness of science and mathematics careers at an early age and to dispel myth that science is a man's field.
Students Served: 50

Funding Source: SMAC/EOP
Annual Budget: Small
Contact: Frankie Augustin, SMAC/EOP Director, frankline.augustin@csun.edu

Program: Phone Outreach Program
Purpose: To contact top students provisionally admitted to the college
Students Served: Approx. 100
Funding Source: College of Engineering and Computer Science
Annual Budget: _____
Contact: Debbie van Alphen, Director of Recruitment, College of Engineering and Computer Science, dvanalphen@csun.edu.

Program: MESA Schools Program
Purpose: Purpose: To create opportunities for disadvantaged students, especially those from underrepresented groups, to prepare for and enter professions requiring degrees in engineering and other mathematics-based fields.
Students Served:
Funding Source: MESA
Annual Budget: _____
Contact: Gillian Massey, Director, gillian@ecs.csun.edu

CSU, San Bernardino

Program: Earth Science Pipeline
Purpose: To recruit and retain underrepresented middle and high school students to the Earth Sciences through workshops and teacher professional development.
Students Served: Several hundred.
Funding Source: NSF and university match.
Annual Budget: \$215,000 (NSF); \$95,000 university match.
Contact: Dr. Alan Smith, Chair, Geological Sciences, asmith@csusb.edu

Program: No name
Purpose: To recruit high school and community college students to BS and BA programs in computer science and computer systems.
Students Served: _____
Funding Source: Campus
Annual Budget: _____
Contact: Dr. Arturo I. Concepcion, Chair, Dept. of Computer Science, concep@csi.csusb.edu

University of California

UC, Irvine

Program: MESA
Purpose: To provide an academic enrichment program to student groups with low eligibility rates for four-year institutions so that increased numbers of students will eventually graduate with degrees in math, engineering and science.
Students Served: 800 in Compton and Anaheim schools
Funding Source: MESA, UCOP
Annual Budget: _____
Contact: Lourdes T. Almeida, Director, lalmeida@uci.edu.

Program: Ask-A-Scientist Night
Purpose: To provide an opportunity for middle and high school students to ask scientists questions about their science fair projects.
Students Served: 1200; 80 UCI scientists, postdoc fellows and students.
Funding Source: SUP, NSF

Annual Budget: _____

Contact: Erin Torres, Biological Sciences Outreach Coordinator, etorres@uci.edu

Program: Faculty Outreach Collaborations Uniting Scientists, Students and Schools (FOCUS)

Purpose: Unites university, community college and K-12 faculty, teachers, and staff in working collaboration in systemic change in K-16 mathematics education including three school districts three school districts.

Students Served: 101,000

Funding Source: NSF

Annual Budget: _____

Contact: Robin Casselman, Project Manager, Center for Educational Partnerships, mcassel@uci.edu.

Program: Building Interest in Chemistry

Purpose: To provide for undergraduate and graduate volunteers who offer demonstrations for high school students and teachers.

Students Served: 3900; 46 volunteers

Funding Source: Campus; NSF/FOCUS

Annual Budget: _____

Contact: James Nowick, Professor of Chemistry, jsnowick@uci.edu.

Program: California State Summer School for Mathematics & Sciences (COSMOS)

Purpose: To provide a four-week summer residence program for high school students in science, engineering and mathematics.

Students Served: 160

Funding Source: State of California, foundations, corporations

Annual Budget: _____

Contact: Marjorie De Martino, Director, cosmos@uci.edu.

Program: Gaining Early Awareness and Readiness for Undergraduate Programs (GEAR UP).

Purpose: To provide a comprehensive program that addresses academic and psychosocial obstacles inhibiting students' successful completion of high school and eligibility for college; targets junior high school students.

Students Served: 1400

Funding Source: U.S. Dept. of Education, various foundations, campus

Annual Budget: _____

Contact: Betty Isa, Director, EAOP, bias@uci.edu.

Program: Earthquake Engineering (Learning with Lego)

Purpose: To provide students to learn about earthquake engineering.

Students Served: 75

Funding Source: SUP

Annual Budget: _____

Contact: Tara Hutchinson, Assistant Professor of Civil Engineering, thutchin@uci.edu.

Program: Junior Science and Humanities Symposium (Southern California) (SCJSHS)

Purpose: To provide high school students in the region with an opportunity to conduct scientific research and to present their findings.

Students Served: 75

Funding Source: National JSHS

Annual Budget: _____

Contact: Ann Miller, Director, amiller@uci.edu.

Program: MathCounts (Regional/State)

Purpose: To develop community awareness of mathematics and to encourage 6th – 8th graders to pursue mathematics.

Students Served: 150 students in regional competition

Funding Source: Various foundations and corporations
Contact: Diana Chen, Coordinator, Mathematics Department, dchen@math.uci.edu.

Program: Physics Outreach Program/Physics Assemblies
Purpose: To motivate interest in science and math through presentations in assemblies.
Students Served: 15,000
Funding Source: SUP and SOC
Annual Budget: _____
Contact: Bill Heidbrink, Professor of Physics and Astronomy, wwheidbr@uci.edu.

Program: Saturday Academy in Mathematics
Purpose: To boost algebra skills in middle schools through working with 6th and 7th grade students and their teachers in developing pre-algebraic skills.
Students Served: 695
Funding Source: EAOP, UCOP, Wells Fargo
Annual Budget: _____
Contact: Diana Sanchez, Program Director, dianas@uci.edu.

Program: Science Fair Initiative
Purpose: To increase the number of UC-eligible students from underserved high schools by supporting students and teachers in a science fair program.
Students Served: 2270
Funding Source: SUP, NSF/FOCUS
Contact: Erin Torres, Biological Science Outreach Coordinator, etorres@uci.edu.

Program: UCI Gifted Students Academy
Purpose: To provide a scholarly college experience for middle school students through the Academy which draws its faculty from schools and colleges in the region.
Students Served: 340
Funding Source: Tuition, private donors
Annual Budget: _____
Contact: Darlene Boyd, Director, dboyd@uci.edu.

Program: Upward Bound
Purpose: To provide educational and support services to students including instruction in core college preparatory courses, with mathematics and sciences figuring prominently.
Students Served: 50, Anaheim Union High School Dist.
Funding Source: U.S. Department of Education
Annual Budget: _____
Contact: Senele Gonzalez, Program Director, sgonzal@uci.edu.

UCLA

Program: MESA Schools Program
Purpose: To provide an academic development program serving educationally disadvantaged middle and high school students.
Students Served: _____
Funding Source: MESA (UCOP)
Annual Budget: _____
Contact: Enrique Ainsworth, Director, rique@ea.ucla.edu

UC, Riverside

Program: MESA Schools Program
Purpose: To provide an academic development program serving educationally disadvantaged middle and high school students.

Students Served: 600-700 in Inland Empire schools
Funding Source: UC Mesa
Annual Budget: \$322,000
Contact: RoderickSmith@ucr.edu

Program: After School Enhancement Program
Purpose: To provide after school programs for elementary school children to encourage college as a goal.
Students Served: 9 UCR tutors
Funding Source: _____
Annual Budget: _____
Contact: Dorella Anderson, Executive Director of the Community Settlement Association, (909) 686-6266

Program: Mathematics Education and Goals Academy (MEGA)
Purpose: To support higher level courses in mathematics in ten middle and high schools utilizing team teaching with university tutors.
Students Served: 700
Annual Budget: \$59,000
Funding Source: EAOP and UCOP
Contact: Javier.Hernandez@ucr.edu.

Program: Upward Bound Math and Science
Purpose: To help students from low-income families to strengthen math and science skills.
Students Served: 80
Annual Budget: \$218,545
Funding Source: U.S. Department of Education
Contact: Gustavo.Oceguera@ucr.edu

Programs for SEM Community College Transfers to Four-Year University

Community Colleges

East Los Angeles College

Program: MESA (CCCP)
Purpose: To provide a pipeline of academic enrichment to increase and retain students in mathematics, engineering and science fields.
Students Served: 600
Source of Funds: California Community College Chancellor's Office; LA County Community Development Commission, industry.
Annual Budget: \$113,239
Contact: Armida T. Avila, Program Director, armidaavila@yahoo.com.

Program: Math Enrichment Through Technology (MEnTe)
Purpose: To increase retention and transfer rates of students in mathematics through increased use of technology.
Students Served: 1060
Funding Source: Title V, U.S. Dept. of Education
Annual Budget: \$427,000
Contact: David Morin, Director, morindr@elac.edu.

El Camino College

Program: MESA (CCCP)
Purpose: To support educationally disadvantaged students to excel in math, engineering and science in preparation for transfer.
Students Served: 200
Funding Source: MESA (CCC Chancellor's Office)
Annual Budget: \$171,000
Contact: Barbara Perez, Dean, Natural Science Division, bperez@elcamino.edu.

Fullerton College

Program: MESA (CCCP)
Purpose: To support educationally disadvantaged students to excel in math, engineering and science in preparation for transfer.
Students Served: _____
Funding Source: MESA (CCC Chancellor's Office)
Annual Budget: _____
Contact: Milton Randle, Director, _____

Glendale College

Program: Alliance for Minority Participation (AMP)
Purpose: To provide in collaboration with CSUN academic enrichment for students who want to complete a baccalaureate in science, engineering or mathematics.
Students Served: _____
Funding Source: _____
Annual Budget: _____
Contact: Dr. Sid Kolpas, skolpas@glendale.edu

Program: Scholars Science Academy
Purpose: To give math and science majors an enriched program including hands-on research.
Students Served: _____
Funding Source: _____
Annual Budget: _____
Contact: Gary Massion, gmassion@glendale.edu.

Pasadena City College

Program: MESA (CCCP)
Purpose: To support educationally disadvantaged students to excel in math, engineering and science in preparation for transfer.
Students Served: _____
Funding Source: MESA (Community College Chancellor's Office)
Annual Budget: _____
Contact: James Kosmicki, Director, jjkosmicki@paccd.cc.ca.us.

San Bernardino Valley College

Program Name: MESA (CCCP)
Purpose: To recruit and support underrepresented students considering a major in mathematics, engineering or science.
Students Served: 150
Source of Funds: MESA (UC); Desert Regional Consortium; NASA
Annual Budget: \$81,500
Contact: Diana Avila, Director, davila@sbccd.cc.ca.us.

Santa Ana College

Program: MESA (CCCP)
Purpose: To support educationally disadvantaged students to excel in math, engineering and science in preparation for transfer.
Students Served: _____
Funding Source: MESA (CCC Chancellor's Office)
Annual Budget: _____
Contact: Tom Mauch, Director, mauch_tom@rscsd.org.

Santa Monica College

Programs: Lawrence Berkeley National Laboratory, Community College Institute
Purpose: To provide research internships.
Students Served: _____
Source of Funds: Dept. of Energy
Annual Budget: _____
Contact: _____

Program: National Institute of Standards and Technology
Purpose: To provide research opportunity in NIST programs.
Students Served: _____
Source of Funds: NIST
Annual Budget: _____
Contact: _____

Program: Summer Transportation Internship Program for Diverse Groups (STIPDG)
Purpose: To provide various internship opportunities.
Students Served: _____
Source of Funds: U.S. Dept. of Transportation
Annual Budget: _____
Contact: _____

Program: HACU National Internship Program (HNIP)
Purpose: To provide internships in various agencies and corporations.
Students Served: _____
Source Funds: Hispanic Association of Colleges and Universities (HACU)
Annual Budget: _____
Contact: _____

California State University

CSU, Dominguez Hills

Program: Bridges to Baccalaureate Degree at CSUDH
Purpose: To increase number of underrepresented minority students obtaining bachelors in science from a university.
Students Served: 20-25
Funding Source: NIGMS
Annual Budget: \$216,328
Contact: Dr. Thomas Landefeld, Program Director, tlandefeld@cas.csudh.edu

CSU Fullerton

Program: Contextual Coursework for Elementary Pre-Service Teachers (ConCEPT)
Purpose: To increase the quantity and quality of science instruction in the elementary classroom through development of courses in collaboration with seven community colleges at which many new teachers complete their science requirements.

Students Served: 4-5 thousand students once courses are developed.
Funding Source: NSF
Annual Budget: \$923,631 over three-year period.
Contact: Dr. Roger Nanes, Program Director, rnanes@fullerton.edu

Program: ENLACE
Purpose: Santa Ana ENLACE is a partnership of a Santa Ana College, California State University Fullerton, University of California Irvine, public schools, and community organizations that are working together to produce more Latino and Hispanic graduates from high school and college.
Students Served: 60,000 Santa Ana Latino Students
Funding Source: W.K. Kellogg Foundation and Houston Endowment
Annual Budget: \$231,526 over 4 years.
Contact: Dr. Silas Abrego, Principal Investigator, sabrego@fullerton.edu.

Program: Integrating the Sciences: Providing Content-Rich Investigative Experiences for Pre-service Teachers
Purpose: To revise upper division science courses based on national guidelines to increase the amount of science taught in Orange County. Two colleges and four disciplines will collaborate to alter the science curriculum for all prospective K-8 teachers through three required courses in order to enhance learning and understanding of science on the part of prospective teachers.
Students Served: 760 enrolled in two courses.
Funding Source: NOVA Implementation Planning
Annual Budget: \$300,000
Contact: Dr. Amy Cox-Peterson, Department of Elementary, Bilingual and Reading Education, Co-Principal Investigator, acox@fullerton.edu.

CSU Los Angeles

Program: Lewis Stokes Alliance for Minority Participation (LSAMP)
Purpose: To offer academic year workshops to students CSULA and at PCC and ELAC taking specific math and science courses designed to provide skills essential for success in the sciences.
Students Served: _____
Funding Source: NSF
Annual Budget: _____
Contact: Dr. Margaret Jefferson, Professor of Genetics, mjeffer@calstatela.edu

Program: Computer Science, Engineering and Mathematics Scholarship (CSEMS)
Purpose: To provide additional financial assistance to students in CSEM majors to facilitate their graduation from community college or CSULA.
Students Served: 20 CSULA; 20 ELAC/PCC
Funding Source: NSF
Annual Budget: _____
Contact: Dr. Raj Pamula, Professor of Computer Science, rpamula@calstatela.edu

Program: Consortium for Undergraduate Research Experience (CURE)-Solar System Astronomy-Research Experience for Undergraduates (REU).
Purpose: To support students working on a variety of observational and computational projects. The consortium includes four community colleges, UCR and Pomona College as well as JPL.
Students Served: _____
Funding Source: NASA
Annual Budget: _____
Contact: Dr. Milan Mijic, Assistant Professor of Physics, mmijic@calstatela.edu

Program: Health Careers Opportunity Program (HCOP)
Purpose: To facilitate the overall preparation and admission success of disadvantaged high school, community college and university students to include summer programs with stipends for high school

students. A consortium of four area high schools, three community colleges, four medical schools, two physician assistant programs, and three hospital/community health organizations.

Students Served: _____

Funding Source: U.S. Dept. of Health and Human Services

Annual Budget: _____

Contact: Dr. Genaro Lopez, Dept. of Biology and Microbiology, glopez@calstatela.edu

Program: Minority Science and Engineering Improvement Program (MSEIP)

Purpose: To provide a comprehensive research-training course sequence for lower division students utilizing teams of students from CSULA, ELAC and PCC.

Students Served: _____

Funding Source: U.S. Dept. of Education

Annual Budget: _____

Contact: Dr. Margaret Jefferson, Professor of Genetics, mjeffer@calstatela.edu

Program: Research Experiences for Undergraduates in Astronomy (REU)

Purpose: To provide research opportunities in astronomy for CSULA and community college undergraduates in association with JPL.

Students Served: _____

Funding Source: NSF

Annual Budget: _____

Contact: Dr. Milan Mijic, mmijic@calstatla.edu

Program: Research Experiences for Undergraduates (REU) in Chemistry and Biochemistry.

Purpose: To provide research experience for community college minority students at CSULA.

Students Served: Up to 10

Funding Source: NSF

Annual Budget: _____

Contact: Dr. Anthony Fratiello, Professor of Chemistry, afratie@calstatela.edu

Program: Bridges to the Future

Purpose: To increase the transfer of minority students at three community colleges in biomedical science disciplines through participation in laboratory research projects and advisement.

Students Served: 24

Funding Source: NIH

Annual Budget: _____

Contact: Dr. Linda M. Tunsted, Assistant Professor of Chemistry, ltundsta@calstatela.edu.

CSU Northridge

Program: Raising Interest in Science and Engineering (RISE)

Purpose: In collaboration with the College of Engineering, to provide an opportunity for transfer students to participate in a research program the summer before transfer.

Students Served: 20

Funding Source: Office of Naval Research/Department of Defense

Annual Budget: \$183,300

Contact: Frankie Augustin, RISE Co-Director, frankline.augustin@csun.edu; Karla Johnson-Majedi, Co-Director, kjm@csun.edu

CSU, San Bernardino

Program: Louis Stokes Alliance for Minority Participation (LSAMP)

Purpose: To increase the number of minority college graduates in science, mathematics, and computer science.

Students Served: 40, San Bernardino Valley College; 80, CSUSB.

Funding Source: NSF
Annual Budget: \$52,000
Contact: Dr. Belasario Ventura, Professor of Mathematics, bventura@csusb.edu

University of California

UC, Irvine

Program: Community College Summer Institute (CCSI)
Purpose: To provide an 8 day residential program offering SEM majors an intensive research experience and university life.
Students Served: 150
Funding Source: UCI CAMP/McNair Office
Annual Budget: _____
Contact: Santana Ruiz, Program Director, s2ruiz@uci.edu.

Program: UCI TEACH (Teacher Education Academy for Community College Scholars)
Purpose: To place future teachers who are currently community college students in a 3 day residential program which includes new ways of learning to teach mathematics and science.
Students Served: 120
Funding Source: NSF FOCUS
Annual Budget: _____
Contact: Roslyn Soto, Program Coordinator, rsoto@uci.edu.

UC, Riverside

Program: Community College Scholars Science Day
Purpose: To highlight the sciences for prospective UCR students and their counselors.
Students Served: 100
Funding Source: Campus
Annual Budget: _____
Contact: joyce.higashida@ucr.edu.

University Programs for University SEM Students

California State University

CSU, Dominguez Hills

Program: Undergraduate Student Training in Academic Research (USTAR)
Purpose: To increase the number of underrepresented minorities in M.D./Ph.D. and Ph.D. Biomedical Programs.
Students Served: 8
Funding Source: NIH/MARC
Annual Budget: \$238,564
Contact: Dr. Thomas Landefeld, Program Director, tlandefeld@cas.csudh.edu

Program: Minority Biomedical Research Support (MBRS)-Research Initiative for Scientific Enhancement (RISE)
Purpose: To provide biomedical research development opportunities for students, faculty and the institution. To increase numbers of students pursuing doctorates and research careers.
Students Served: 25
Funding Source: NIH/MBRS
Annual Budget: \$582,839
Contact: Dr. Laura Robles, Program Director, lrobles@cas.csudh.edu

Program: Minority Biomedical Research Support (MBRS)—Support for Continuous Research Excellence (SCORE)

Purpose: To assist biomedical research faculty and minority-serving institutions to develop competitive research programs and to increase the number of under-represented minorities engaged in biomedical research.

Students Served: Not reported (5 CSUDH faculty)

Funding Source: NIH/MBRS

Annual Budget: \$712,840

Contact: Dr. Laura Robles, Program Director, lrobles@cas.csudh.edu

Program: Studies of Nucleon Decay, Solar Neutrinos, and Neutrino Astrophysics.

Purposes: Research grant having impact on development of students in physics and physical sciences.

Students Served: 8

Funding Source: NSF

Annual Budget: \$75,000

Contact: Dr. Kenneth Ganezer, Professor of Physics,

Program: New Technology and Material Models for Students of Osteoporosis and Bone Mechanical Properties

Purposes: Research project intending to develop, in part, minority students in biomedical sciences.

Students Served: 4

Funding Source: NIH

Annual Budget: \$200,000

Contact: Dr. Kenneth Ganezer, Professor of Physics, kganezer@csudh.edu

CSU Fullerton

Program: CSUF Bridges to the Future

Purpose: To facilitate transfer of minority students from a masters program to a doctoral granting institution by providing basic research opportunities and workshops and pro-seminars in chemistry and the biological sciences. Doctoral partners include, UCI, UCR, UC San Diego and USC.

Students Served: 8

Funding Source: NIH

Annual Budget: \$647,999 over three-year period

Contact: Dr. Christina Goode, Program Director, cgoode@fullerton.edu

Program: CSEMS Program

Purpose: To provide scholarships and support services to students studying mathematics, computer science or a field of engineering as a junior, senior, or graduate student to attain a 4-year degree and prepare for graduate studies and/or placement in an appropriate workplace.

Students Served: 40

Funding Source: National Science Foundation

Annual Budget: \$217,602 over two years

Contact: Dr. Silas Abrego, Project Director, sabrego@fullerton.edu

Program: Minority Access to Research Careers (MARC U*STAR)

Purpose: To prepare MARC scholars to compete for positions in graduate programs leading to the Ph.D and/or preparation for biomedical careers by providing first-rate research training and ensuring their success after placing them into respected graduate programs.

Students Served: 8

Funding Source: U.S. Department of Health and Human Services, Public Health Services; research funding from various sources.

Annual Budget: \$193,564

Contact: Dr. Robert Koch, Professor of Biology, Program Director, rkoch@fullerton.edu.

Program: MEP (Mesa Engineering Program)
Purpose: Offers academic support to recruit, retain, and graduate students in engineering and increase industry tours and scholarships.
Students Served: 180-200
Funding Source: University of California (fiscal agent), campus funds
Annual Budget: \$200,000 total
Contact: Sergio A. Guerra, Program Director, sguerra@fullerton.edu

Program: Minority International Research Training Program (MIRT)
Purpose: To support research experiences in international laboratories for both honors undergraduate minority students and minority graduate students in order to increase minority student representation in the international research community.
Students Served: 16 (five faculty)
Funding Source: Fogarty International Center & Office of Minority Health, NIH
Annual Budget: \$215,000
Contact: Dr. Bruce Weber, Program Director, bweber@fullerton.edu

Program: Minority Student Development Program (MSD)
Purpose: To provide minority students experience in biomedical research and to encourage students with such experience to pursue further education leading to a Ph.D or M.D./Ph.D. degree and, ultimately, careers in biomedical research.
Funding Source: NIH; campus
Students Served: 30 in year-round and summer programs
Annual Budget: \$2,144,911 (four-year period)
Contact: Dr. Christina Goode, Professor of Chemistry, Principal Investigator, cgoode@fullerton.edu.

Program: REU—Research Experiences for Undergraduates
Purpose: To provide support for student participation in chemistry research projects each summer.
Students Served: 10
Funding Source: NSF
Annual Budget: \$174,833 (three-year period)
Contact: Dr. John Olmsted, Professor of Chemistry, Project Director, jolmsted@fullerton.edu.

Program: Ronald E. McNair Post-Baccalaureate Achievement Program
Purpose: To encourage low-income, first generation, and underrepresented students to pursue graduate studies, especially in mathematics, engineering and science, through summer research with stipends, mentoring, seminars, etc.
Students Served: Approx. 20
Funding Source: U.S. Department of Education
Annual Budget: \$232,000
Contact: Dr. Gerald Bryant, Program Director, gbryant@fullerton.edu.

Program: Environmental Biology in Changing Southern California (UMEB)
Purpose: To attract underrepresented students to environmental biology early in their academic careers through research opportunities, and mentoring to enter the environmental industry or governmental agencies.
Students Served: 18 over four-years
Funding Source: NSF
Annual Budget: \$340,960 over four-years
Contact: Dr. C. Eugene Jones, Program Director, Professor of Biology, cejones@fullerton.edu.

CSU Los Angeles

Program: MESA Engineering Program (MEP)
Purpose: To increase enrollment, academic performance, graduation and professional development by providing academic support services.

Students Served: _____
Funding Source: MESA
Annual Budget: _____
Contact: Dr. Ethan Lipton, Associate Dean, College of Engineering Computer Science and Technology, elipton@calstatela.edu

Program: Computer Science, Engineering and Mathematics Scholarship (CSEMS)
Purpose: To provide additional financial assistance to students in CSEM majors to facilitate their graduation from community college or CSULA.
Students Served: 20 CSULA; 20 ELAC/PCC
Funding Source: NSF
Annual Budget: _____
Contact: Dr. Raj Pamula, Professor of Computer Science, rpamula@calstatela.edu.

Program: CAD Training in Transportation Field for Minorities and Females
Purpose: To provide training in CAD and GIS for students pursuing a career in a transportation related field.
Students Served: _____
Funding Source: Caltrans/FTA
Annual Budget: _____
Contact: Dr. Hassan Hashemian, Professor of Civil Engineering, hhashem@calstatela.edu.

Program: Cal State L.A. Marine Biology Research Project
Purpose: To support undergraduate and graduate research utilizing part-time research positions for students.
Students Served: _____
Funding Source: NSF/National Marine Fisheries Service
Annual Budget: _____
Contact: Dr. Carlos Robles, Professor of Biology, crobles@calstatla.edu

Program: CalTech Center for the Science and Engineering of Materials (CSEM/CSLA Partnership)
Purpose: To provide for CSULA student research at Cal Tech.
Students Served: 7
Funding Source: NSF
Annual Budget: _____
Contact: Dr. Stanley Pine, Professor of Chemistry, spine@calstatela.edu

Program: Center for Environmental Analysis-(CEA-CREST)
Purpose: To provide opportunities for undergraduate and graduate student research in the environmental sciences utilizing teams of faculty and students, internships, etc .
Students Served: _____
Funding Source: NSF
Annual Budget: _____
Contact: Dr. Carlos Robles, Program Director and Professor of Biology and Microbiology, ceacrest@calstatela.edu

Program: Collaborative Research @ Undergraduate Institutions (CRUI)
Purpose: To offer research opportunities for students in Chemistry/Biochemistry, Biology/Microbiology; area of focus the impact of urban smog on plants.
Students Served: 10
Funding Source: _____
Annual Budget: _____
Contact: Dr. Robert Vellanoweth, Department of Chemistry and Biochemistry, vllnwth@calstatela.edu.

Program: Computer Science, Engineering and Mathematics Scholarship (CSEMS)

Purpose: To provide additional financial assistance to students in CSEM majors to facilitate their graduation from community college or CSULA.

Students Served: 20 CSULA; 20 ELAC/PCC

Funding Source: NSF

Annual Budget: _____

Contact: Dr. Raj Pamula, Professor of Computer Science, rpamula@calstatela.edu

Program: Career Opportunities in Research Education and Training Honors Undergraduate Program (COR)

Purpose: To offer a two-year special program for students interested in preparing for a graduate degree in mental health-related fields.

Students Served: _____

Funding Source: NIMH

Annual Budget: _____

Contact: Dr. Sonsoles de Lacalle, Program Director, sdelaca@calstatela.edu

Program: Dwight David Eisenhower Transportation Fellowship Program

Purpose: To provide fellowships for preparation for careers in transportation.

Students Served: _____

Funding Source: Federal Highway Administration

Annual Budget: _____

Contact: Dr. Hassan Hashemian, Professor of Civil Engineering, hhashem@calstatela.edu.

Program: Faculty Award Research by NASA

Purpose: To train minority students in state of the art research through developing techniques to mitigate earthquake effects on structures.

Students Served: _____

Funding Source: NASA

Annual Budget: _____

Contact: Dr. Hassan Hashemian, Professor of Civil Engineering, hhasem@calstatela.edu.

Program: Hands-on Experiences in Rehabilitation Engineering (HERE)

Purpose: To engage freshman engineering students in field of rehabilitation engineering.

Students Served: _____

Funding Source: National Institute on Disability and Rehabilitation Research

Annual Budget: _____

Contact: Dr. Samuel Landsberger, Professor of Mechanical Engineering and Kinesiology, slandsb@calstatela.edu.

Program: Health Careers Opportunity Program (HCOP)

Purpose: To facilitate the overall preparation and admission success of disadvantaged high school, community college and university students to include summer programs with stipends for high school students. A consortium of four area high schools, three community colleges, four medical schools, two physician assistant programs, and three hospital/community health organizations.

Students Served: _____

Funding Source: U.S.Dept. of Health and Human Services

Annual Budget: _____

Contact: Dr. Genaro Lopez, Dept. of Biology and Microbiology, glopez@calstatela.edu

Program: Lewis Stokes Alliance for Minority Participation (LSAMP)

Purpose: To provide essential skills in sciences through workshops and courses.

Students Served: _____

Funding Source: NSF

Annual Budget: _____

Contact: Dr. Margaret Jefferson, Professor of Genetics, mjeffer@calstatela.edu

Program: MEP (Mesa Engineering Program)
Purpose: To recruit, retain, and graduate students in engineering.
Students Served: _____
Funding Source: University of California (fiscal agent), campus funds
Annual Budget: _____
Contact: Dr. Ethan Lipton, Associate Dean, College of Engineering, Computer Science, and Technology, elipton@calstatela.edu.

Program: Beckman Scholars Program
Purpose: To assist undergraduate students in sciences who plan to pursue a PhD or MD/PhD career in science.
Students Served: Four undergraduates per year
Funding Source: _____
Annual Budget: _____
Contact: Dr. Carlos Gutierrez, Professor of Chemistry, cgutier@calstatela.edu

Program: Biomedical Post-Baccalaureate Research Education Program (BIOMED PREP)
Purpose: To provide recent graduates with the opportunity to work as research technicians in natural and behavioral sciences.
Student Served: _____
Funding Source: _____
Annual Budget: _____
Contact: MORE Programs Office, morepro@calstatela.edu

Program: Bridges to the Ph.D.
Purpose: To increase the number of minority students in Ph.D. programs in the fields of biomedical sciences; collaborative program with UCLA, USC, UCI.
Students Served: 6 graduate students
Funding Source: NIH
Annual Budget: _____
Contact: Dr. Robert Vellanoweth, Assistant Professor of Biochemistry, vllnwth@calstatela.edu.

Program: Minority Access to Research Careers-Undergraduate Student Training for Academic Research (MARC-U*STAR).
Purpose: To increase number of well-prepared minority students who can compete for positions in graduate programs leading the Ph.D. in one of the biomedical sciences utilizing a honors training program.
Students Served: 15
Funding Source: NIH
Annual Budget: _____
Contact: Dr. Felix Gutierrez, Professor of Chemistry, fgutier@calstatela.edu.

Program: Minority Biomedical Research Support-Research Initiative for Scientific Enhancement (MBRS-RISE).
Purpose: To develop a pool of underrepresented minority students pursuing careers in biomedical-related sciences through supervised research during the academic year and the summer.
Students Served: 50
Funding Source: NIH
Annual Budget: _____
Contact: Dr. Carlos Gutierrez, Professor of Chemistry/Lisa Bautista, Program Assistant, lbautis3@calstatela.edu.

Program: Research Undergraduate Scholars Honors (RUSH) Fellowship.
Purpose: To provide a fellowship program for entering freshman from the Dorsey/Crenshaw Cluster of LAUSD looking toward their entering research universities to pursue the Ph.D. degree.
Students Served: _____

Funding Source: Campus
Annual Budget: _____
Contact: Vicki Kubo Anderson, Program Coordinator, vkuboan@calstatela.edu.

Program: Minority Science and Engineering Improvement Program (MSEIP)
Purpose: To provide a comprehensive research-training course sequence for lower division students utilizing teams of students from CSULA, ELAC and PCC.
Students Served: _____
Funding Source: U.S. Dept. of Education
Annual Budget: _____
Contact: Dr. Margaret Jefferson, Professor of Genetics, mjeffer@calstatela.edu

Program: National Marine Fisheries Service
Purpose: To provide science students an opportunity to work on projects aiding American fisheries in collaboration with the National Marine Fisheries Service.
Students Served: _____
Funding Source: NSF
Annual Budget: _____
Contact: Dr. Carlos Robles, Professor of Biology, crobles@calstatela.edu

Program: Multidisciplinary Analysis and Control of High-Performance Air Vehicles
Purpose: Among others, to expose minority students to the Air Force research and development environment and to prepare them for graduate work and future employment.
Students Served: _____
Funding Source: Dept. of Defense
Annual Budget: _____
Contact: Dr. Majdedin Mirmirani, Professor of Mechanical Engineering, mmirmir@calstatela.edu.

Program: Post-Baccalaureate Certificate Program for Pre-Health Professionals
Purpose: To provide a post-baccalaureate program for pre-health career students to strengthen their academic background prior to application to a professional school.
Students Served: 10
Funding Source: _____
Annual Budget: _____
Contact: Jean Cruz, Graduate Program Coordinator, jacruz@cslanet.calstatela.edu

Program: Structures Pointing and Controls Engineering (SPACE)
Purpose: To provide for undergraduate and graduate student research opportunities in the development of a model space segmented reflector telescope; partnership with other universities and industry.
Students Served: Over 90 since 1994.
Funding Source: NASA and private industry
Annual Budget: _____
Contact: Dr. Helen Ryaciotaki-Boussalis, Professor of Electrical Engineering, hboussa@calstatela.edu.

Program: Undergraduate Mentoring in Environmental Biology (UMEB)
Purpose: To provide undergraduate students environmental science research training under faculty supervision for up to four years.
Students Served: _____
Funding Source: NSF
Annual Budget: _____
Contact: Dr. Carlos Robles, Professor of Biology/Ann Wijnholds, Environmental Science Coordinator, awijnho@calstatela.edu.

CSU, Long Beach

Program: MESA (MEP)

Purpose: To increase enrollment, academic performance, graduation and professional development by providing academic support services.

Students Served: _____

Funding Source: MESA

Contact: Emmitt Clark, Director, ecjr@csulb.edu.

CSU, Northridge

Program: SMAC/EOP Tutorial Services

Purpose: To promote retention and improve graduation rates, one-on-one tutorials in mathematics and science subjects.

Students Served: 250

Funding Source: Associated Students/SMAC/EOP

Annual Budget: \$5,500

Contact: Frankie Augustin, SMAC/EOP Director, frankline.augustin@csun.edu

Program: MESA (MEP)

Purpose: To increase enrollment, academic performance, graduation and professional development by providing academic support services.

Students Served: _____

Funding Source: MESA

Annual Budget: _____

Contact: Karla Johnson-Majedi, Director, kjohnson-majedi@csun.edu.

California State Polytechnic University, Pomona

Program: MESA (MEP)

Purpose: To increase enrollment, academic performance, graduation and professional development in engineering by providing academic support services.

Students Served: _____

Funding Source: MESA

Annual Budget: _____

Contact: Belinda Acuna, Director, baacuna@csupomona.edu.

CSU, San Bernardino

Program: Lois Stokes Alliance for Minority Participation (LSMAP)

Purpose: To increase the number of minority college graduates in science, math and computer science.

Students Served: 120: 40 in first year of major; 40 in second year; 40 at San Bernardino Valley College.

Funding Source: NSF, Campus

Annual Budget: \$52,000; \$40,000 match

Contact: Dr. Belisario Ventura, Professor of Mathematics, bventrua@csusb.edu

Program: Undergraduate Research Opportunities in Physics

Purpose: To support student/faculty research.

Students Served: _____

Funding Source: NSF/DOD

Annual Budget: \$35,000-50,000

Contact: Dr. Tim Usher, Professor of Physics, tusher@csusb.edu

Program: CSEMS Scholarship Grants

Purpose: To provide two-year grants to students in computer science, engineering and the mathematical sciences.

Students Served: Unknown

Funding Source: NSF

Annual Budget: \$105,819
Contact: Dr. Yasha Karant, Professor of Computer Science and Information Decision Sciences,
ykarant@csusb.edu

University of California

UC, Irvine

Program: MESA (MEP)
Purpose: To increase enrollment, academic performance, graduation and professional development by providing academic support services.
Students Served: _____
Funding Source: MESA
Annual Budget: _____
Contact: Robin Jeffers, Director, jeffers@uci.edu.

Program: California Alliance for Minority Participation (CAMP)
Purpose: To increase the quantity and quality of minority students receiving the baccalaureate in SEM disciplines.
Students Served: 700 on 8 UC campuses.
Funding Source: NSF
Annual Budget: _____
Contact: Kika Friend, Director, kfriend@uci.edu.

Program: McNair Post-Baccalaureate Program
Purpose: Prepares low-income, disadvantaged students under-represented in graduate education.
Students Served: 40
Funding Source: U.S. Department of Education
Annual Budget: _____
Contact: Kika Friend, Director, kfriend@uci.edu

UCLA

Program: MESA (MEP)
Purpose: To increase enrollment, academic performance, graduation and professional development by providing academic support services.
Students Served: _____
Funding Source: MESA
Annual Budget: _____
Contact: Enrique Ainsworth, Director, rique@ea.ucla.edu

UC, Riverside

Program: California Alliance for Minority Participation (CAMP)
Purpose: To increase the quantity and quality of minority students receiving the baccalaureate in SEM disciplines.
Students Served: 700 on 8 UC campuses.
Funding Source: NSF
Annual Budget: _____
Contact: teresa.cofield@ucr.edu.

Program: MARC U*STAR Training Program
Purpose: To encourage minority students in sciences to pursue graduate research related to medicine.
Students Served: _____
Funding Source: NIH
Annual Budget: \$285,000

Contact: Jo-Ann Heick, marcu@ucr.edu

Program: Mentoring Summer Research Internship Program (MSRIP)

Purpose: To provide undergraduates with an opportunity to work with faculty on research projects; GRE preparation, etc.

Students Served: 25-30

Funding Source: UCOP, CAMP, Cal Predoc, Dupont

Annual Budget: \$70,000

Contact: maria.franco@ucr.edu

Program: Leadership Through Excellence and Advanced Degree Program (UC Leads)

Purpose: To prepare SEM upper division students for doctoral programs at one of the UC campuses.

Students Served: 16 in two-year program

Funding Source: UCOP and campus

Annual Budget: \$208,000

Contact: marie.steward@ucr.edu

Program: CSEMS Program

Purpose: To provide scholarship support to talented, low-income undergraduate students including transfers in computer science, engineering and mathematics.

Students Served: 40

Funding Source: NSF

Annual Budget: _____

Contact: Keith Oddson, jko@engr.ucr.edu

Program: MESA (MEP)

Purpose: To increase recruitment, retention and graduation of underrepresented students in engineering.

Students Served: 500

Funding Source: UC Mesa

Annual Budget: \$100,000

Contact: Linda O'Neill, Director of Special Programs, linda.oneill@ucr.edu

Teacher Preparation in Science and Mathematics

Community Colleges

El Camino College

Program: Science FEST (Future Elementary Science Teachers)

Purpose: To link content taught in El Camino science courses with pre-teaching experiences in elementary schools and to strengthen and sustain an articulated transfer path for future science teachers; partnership with Moffett Elementary, CSUDH and CSULB.

Students Served: 25

Funding Source: NSF

Annual Budget: \$105,000

Contact: Judy Kasabian, Professor of Mathematics, kasabian@elcamino.edu.

Program: Washington Mutual Future Teachers Conference and Workshops

Purpose: To provide future and novice teachers with skills and information needed to navigate the credential process, land a position, and be successful in the first year in the classroom.

Students Served: Approx. 350

Funding Source: Washington Mutual Foundation

Annual Budget: \$50,000

Contact: Judy Kasabian, Professor of Mathematics, kasabian@elcamino.edu.

Glendale College

Program: Los Angeles Collaborative for Teacher Excellence
Purpose: to increase the number of math, science and liberal arts majors who plan to teach math or science in K-12.
Students Served: _____
Funding Source: _____
Annual Budget: _____
Contact: cpaxton@glendale.edu.

California State University

CSU, Dominguez Hills

Program: CSUDH Mathematics Project
Purpose: Professional development for in-service K-12 teachers of mathematics including summer institute.
Students Served: 200 teachers
Funding Source: California Mathematics Project
Annual Budget: \$172,500
Contact: Dr. Eunice Krinsky, Professor of Mathematics, ekrinsky@csudh.edu

Program: Mathematics Professional Development Institutes
Purpose: Professional development for 6-12 grade mathematics teachers.
Students Served: 115 teachers
Funding Source: Governor's Professional Development Initiative
Annual Budget: \$165,000
Contact: Dr. Eunice Krinsky, Professor of Mathematics, ekrinsky@csudh.edu

Program: Pasadena Mathematics Project
Purpose: CSUDH faculty working with middle school and high school mathematics teachers in Pasadena.
Student Served: Approx. 25 teachers
Funding Source: California Academic Partnership Program
Annual Budget: \$60,000
Contact: Dr. John Wilkins, Associate Professor of Mathematics, jwilkins@csudh.edu

Program: Project MASTER
Purpose: To increase the number of math and science teachers in Local Districts G & I, LAUSD.
Students Served: 100 teachers
Funding Source: U.S. Dept. of Education
Annual Budget: \$375,000
Contact: Dr. Joel Colbert, Associate Dean, jcolbert@csudh.edu

Program: MASTAP
Purpose: To increase mathematics content knowledge and pedagogy in upper elementary and middle school teachers in Local Districts I & K, LAUSD.
Students Served: 100 teachers
Funding Source: NASA
Annual Budget: \$200,000
Contact: Dr. Joel Colbert, Associate Dean, jcolbert@csudh.edu

Program: Master of Arts in Teaching Mathematics
Purpose: Degree program to increase the depth and breadth of mathematical and pedagogical knowledge of in-service secondary mathematics teachers.
Students Served: 20

Funding Source: CSUDH
Annual Budget: N/A
Contact: Dr. Eunice Krinsky, Professor of Mathematics, ekrinsky@csudh.edu

CSU, Fullerton

Program: California Mathematics Projects
Purpose: A partnership with three local school districts will prepare teacher leaders to teach mathematics in grades 5-9 through professional development via workshops and a Leadership Institute with a focus in algebra.
Students Served: 14
Funding Source: California Subject Matter Projects
Annual Budget: \$245,000
Contact: Dr. Harris Shultz, Program Director, hshultz@fullerton.edu

Program: Contextual Coursework for Elementary Pre-Service Teachers (ConCEPT)
Purpose: To increase the preparation of elementary school teachers and the quantity and quality of science instruction in their classrooms through development of courses in collaboration with seven community colleges at which many new teachers complete their science requirements.
Students Served: 4-5 thousand students once courses developed.
Funding Source: NSF
Annual Budget: \$923,631 over three-year period.
Contact: Dr. Roger Nanes, Program Director, rmanes@fullerton.edu

CSU, Los Angeles

Program: Better Education Science Teachers (BEST)
Purpose: To provide a four-year teaching credential program in Natural Science utilizing team-taught courses and field experiences in middle and high school science classes.
Students Served: 25?
Funding Source: _____
Annual Budget: _____
Contact: Dr. Don Paulson, Professor of Chemistry, dpaulso@calstatela.edu.

Program: NASA-Dryden Science Ambassadors' Project-Excellence in Science Education for Hard-to-staff Urban Schools.
Purpose: Professional development for 6th through 12th grade teachers who are not State certified.
Students Served: _____
Funding Source: NASA
Annual Budget: _____
Contact: Dr. Jean-Adenika-Morrow, Professor of Education, jadenik@calstatela.edu.

CSU San Bernardino

Program: Operation Primary Physical Science (OPPS)
Purpose: To increase physical science knowledge of primary (K-3) teachers through workshops and coaching sessions on certification examinations.
Students Served: 20 teachers in workshops.
Funding Source: NSF
Annual Budget: _____
Contact: Dr. Karen Kohlmainen, Associate Professor of Physics, karen@csusb.edu

Program: Science, Math, and Technology Education Consultation
Purpose: To provide faculty consultation to projects affiliated with other institutions, county offices, districts or cities, such as the Riverside, Inyo, Mono, San Bernardino (RIMS) Science Teacher Education project of the State Department of Education.

Students Served: _____
Annual Budget: _____
Contact: Dr. Herb Brunkhorst, Chair Dept. of Science, Math and Technology Education,
hkbrunh@csusb.edu

Program: Louis Stokes Alliance for Minority Participation (LSAMP)
Purpose: To increase the number of minority college graduates in science, mathematics and computer science, a large proportion of whom acquire a teaching certificate after graduation.
Students Served: 120 students, 40 of whom attend San Bernardino Valley College.
Funding Source: NSF
Annual Budget: \$52,000
Contact: Dr. Belisario Ventura, Professor of Mathematics, bventura@csusb.edu

Program: MA in Education, Option in Science Education
Purpose: To provide a blend of content knowledge in science and methods and materials for teaching science. (Replaced MAT in Science Teaching.)
Students Served: _____
Funding Source: Campus
Annual Budget: _____
Contact: Dr. Herb Brunkhorst, Chair, Dept. of Science, Math and Technology Education,
hkbrunh@csusb.edu

Program: MAT in Mathematics Teaching
Purpose: Revised program developed with San Bernardino and Riverside County Schools and districts directed to improve mathematics teaching in K-12 and influence attitudes of students toward math and science.
Students Served: Begins Fall 2003
Funding Source: Campus
Annual Budget: _____
Contact: Dr. Robert Stein, Professor of Mathematics, bstein@csusb.edu; Dr. Terry Hallet, Professor of Mathematics, jhallet@csusb.edu

University of California

UC, Irvine

Program: Community Teaching Fellowships in Mathematics and Science (CTFMS).
Purpose: To prepare UCI undergraduate math and science majors for teaching careers through providing classroom experience in partner school districts.
Students Served: 30
Funding Source: Campus
Annual Budget: _____
Contact: Jeff Hrubby, Co-Director, IMP, jhrubby@uci.edu.

Program: Assessment Conference
Purpose: To provide a professional development opportunity for K-12 teachers to reflect on aspects of assessment.
Students Served: 175 teachers
Funding Source: NSF FOCUS; LETS; Cal. Sci. Project
Annual Budget: _____
Contact: Ann Miller, Program Director, amiller@uci.edu.

Program: California Science Project at Irvine (CSPI).
Purpose: To enhance middle and high school teachers content mastery and pedagogical skills in science.
Students Served: 55 teachers

Funding Source: UCOP; SUP; Science Outreach Center
Annual Budget: _____
Contact: Ann Miller, Program Director, amiller@uci.edu.

Program: Learning English through Science (LETS)
Purpose: To enable K-8 teachers to enhance their understanding of instructional strategies for English language learners through science.
Students Served: 150 elementary school teachers.
Funding Source: UCOP
Annuals Budget: _____
Contact: Ann Miller, Program Director, amiller@uci.edu.

Program: Faculty Outreach Collaborations Uniting Scientists, Students and Schools (FOCUS).
Purpose: To unite university, community college and K-12 faculty, teachers and staff in working collaborations in systemic change in K-16 mathematics education in three school districts.
Students Served: 3,000 teachers
Funding Source: NSF
Annual Budget: _____
Contact: Robin Casselman, Project Manager, Assoc. Dir. Center for Educational Partnerships, rcassel@uci.edu.

Program: Future of Science Conference
Purpose: To provide an opportunity of science educators to reflect on developments in science research and science education.
Students Served: 250 teachers
Funding Source: UCOP; corporate
Annual Budget: _____
Contact: Ann Miller, Program Director, amiller@uci.edu.

Program: Irvine Mathematics Program (IMP)
Purpose: To increase teacher content knowledge and to develop teacher leaders through various professional development activities.
Students Served: 180 teachers
Funding Source: UCOP
Annual Budget: _____
Contact: Jeff Hruby, Co-Director, jhruby@uci.edu.

Program: Structural Biology in Space
Purpose: To provide high school teachers with skills and materials needed for high school students to conduct crystallization experiments.
Students Served: 250 teachers; 3750 students
Funding Source: NASA; Space Grant Consortium and others
Annual Budget: _____
Contact: Stan Koszelak, Project Scientist, koszelak@uci.edu.

UC, Riverside

Program: The ALPHA Center (Academy of Learning through Partnerships for Higher Achievement)
Purpose: Responsible for all teacher preparation activities that UCR sponsors. ALPHA programs serve students and teachers throughout the Inland Empire at 34 high schools, 53 middle schools, and 100 elementary schools. ALPHA programs directly serve 2,054 students in these schools; and indirectly (served as a result of their teacher or school being involved) over 117,348 students.
Students Served: On an annual basis, ALPHA directly serves approximately 2,083 eachers and school administrators from K-12 as a result of their participation in 2 or more programs or special events. An additional 8,700 K-12 teachers and administrators are served indirectly due to their

participation in a single ALPHA program or special event or due to their contacting the Center directly for individual service.

Funding Source: Campus

Annual Budget: \$1.2 million.

Contact: Pamela Clute, Director, Pamela.clute@ucr.edu.

1. Mathematics Academy for Teaching Excellence (MATE)

<http://www.alphacenter.ucr.edu/MATE/>

MATE is a summer intensive, year-long program for 5th through 12th grade teachers designed to connect the resources of the University with the talents and vision of school districts, with the goal of addressing the needs of students in the area of mathematics.

Contact: Kathleen Bocian, Associate Director, Alpha Center

Director, School University Partnerships, kathleen.bocian@ucr.edu

2. Climbing Higher with the Academy for Mathematics Performance (CHAMP)

<http://www.alphacenter.ucr.edu/MATE/CHAMP/>

The goal of CHAMP is to create an education environment where MATE participants, University CTFMS (Community Teaching Fellowships in Mathematics and Science) students, and classroom teachers can work collaboratively to create, demonstrate and test innovative instructional strategies in mathematics.

Contact: **Kathleen Bocian, Associate Director, Alpha Center**

Director, School University Partnerships, kathleen.bocian@ucr.edu

3. **Other ALPHA Center initiatives** to support the goals of increased classroom rigor, improved mathematics teacher quality and accessibility to under-represented students, and student identification and participation in schools and college going behaviors occur within the following district sites:

- Colton USD – focused mathematics (algebra) professional development with teachers from high school and feeder elementary schools.
- Desert Sands USD – Vertical articulation for mathematics curriculum across elementary, middle and high school sites; professional development in teaching strategies.
- Riverside USD – Professional development for teachers in mathematics. After school support programs, integrated with digital school computer technology at both middle and high school sites.
- Val Verde USD – Professional development for teachers in mathematics in conjunction with modular, mastery learning program for Algebra I.

4. **Other ALPHA activities** include funded faculty initiated research projects that support the goals of increased classroom rigor, improved teacher quality and accessibility to under-represented students and student identification and participation in school and college going behaviors.

- **MAP (Mathematics Articulation Project)** with Jurupa Unified School District. Analysis of curricula, textbooks and teaching strategies from elementary to high school. Peer observations of teaching, analysis of gaps, professional development keyed to this work.
- **Science for middle school teachers** with Riverside, Colton, and Val Verde USDs. Science content and pedagogy linked to California State Science Standards offered throughout academic year and during summer institutes in collaboration with Inland Area Science Project.

5. Program: UC Riverside Community Teaching Fellowship Program in Mathematics and Science.

Purpose: To develop and financially supports fellows in mathematics and science who are teaching in a K-12 public school setting with a large minority population in a low socio-economic area.

Students served: 60 UCR undergraduates, with 335 in a data base for possible further involvement, 120 grade 4-12 classroom teachers who serve as sponsors for the CTFMS fellows. Approximately 1800 4-12th grade students who engage with the CTFMS fellow in their classroom.

Source of Funding: _____

Annual Budget: \$300,000

Contact: Jan Carter

Special Note: Intersegmental collaboration with community colleges:

In cooperation with the School of Education, UCR has incorporated the CTFMS efforts into the development of a Blended Program for Undergraduate Preparation Program. The program is for the students who know as early as their freshman or sophomore year that they want to be teachers of mathematics, science or English at the secondary level. It also serves liberal studies major who want to become elementary teachers. The blended program serves UCR under- graduates but it is also a way to connect CTFMS with the community colleges. Through a partnership between community colleges and the UCR School of Education, community college students can enter the blended program as juniors. If these students are planning on becoming mathematics or science teachers they are eligible to apply for CTFMS fellowships. Providing financial, academic and mentoring support through the CTFMS program to community college transfer students, is a strong incentive to come to this campus. Currently UCR is working with Chaffey (a largely Hispanic Community College) and Riverside Community College (also heavily minority, but more varied). Once approved by the California Commission on Teacher Credentialing, the program will be open to other community colleges who choose to sign partnership agreements with UCR.

Campus Reporting No Programs Fitting Categories

Rio Hondo College
West Los Angeles College

May 13, 2003