Sponsored Research and Contract Activity
2008 and 2009 Years in Review
Dear friends of Sacramento State:

Great teaching will lead our campus into a future defined by new technologies for inquiry, research and exploration. As a place of growth for a diversity of learners and scholars, Sacramento State has expanded and changed in recent years, becoming more focused on science and technology, on the social and economic health of our region, and on linking our students, graduates and faculty into an ecosystem of collaborative learning with partners across education, government and industry.

From smart grids to stem cells, from archaeology to higher education policy, from nursing to neuroscience, and from string music to the intersection of quantum mechanics and philosophy, the faculty of Sacramento State are creating new platforms and pathways for student learning and research.

In 2009, we were designated an Emerging Research Institution by the Federal Demonstration Partnership (FDP), a collaboration of federal agencies and research universities led by the National Academy of Sciences and the National Science Foundation. This designation, which was awarded through a competitive peer-review process, gives Sacramento State an increased presence among larger institutions and access to information, initiatives and innovation which we are using to expand scholarship and teaching on the campus.

Within these pages you will find examples the externally sponsored research and development activities of our faculty. With the increasing support of external partners and funders, Sacramento State is building a stronger and more agile research enterprise to match the needs of our region and nation. I encourage you to learn more about the work underway and to visit our website for the latest research news.

Sincerely,

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Assistant Vice President
Research Administration and Contract Administration

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This publication was printed on 30% recycled paper with soy-based ink.

Please send comments on the Year in Review to Shannon Rexin at srexin@csus.edu.
Research Administration and Contract Administration is a partnership between Academic Affairs and University Enterprises, Inc. (UEI). University and UEI professionals work collaboratively to support the intellectual and programmatic initiatives of Sacramento State faculty, staff and students. Academic Affairs staff provide coordination for the development of sponsored scholarly and creative activities as well as proposal submission, and UEI staff provide the fiscal management and compliance oversight required of awarded...
### Facts and Figures

**Summary of Research Grant and Contract Activity**

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<tbody>
<tr>
<td><strong>Proposal Submissions</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total proposed project costs</td>
<td>$23,611,399</td>
<td>$19,199,361</td>
</tr>
<tr>
<td>Proposed direct costs</td>
<td>$20,451,793</td>
<td>$16,384,438</td>
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<tr>
<td>Proposed Facilities and Administrative (F&amp;A) costs</td>
<td>$3,159,606</td>
<td>$2,814,923</td>
</tr>
<tr>
<td>Number of proposal submissions</td>
<td>163</td>
<td>168</td>
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<tr>
<td><strong>Awards Received</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total funds awarded</td>
<td>$24,846,091</td>
<td>$19,731,484</td>
</tr>
<tr>
<td>Awarded direct project costs</td>
<td>$21,457,042</td>
<td>$16,807,509</td>
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<tr>
<td>Awarded Facilities and Administrative (F&amp;A) costs</td>
<td>$3,389,049</td>
<td>$2,923,975</td>
</tr>
<tr>
<td>Average F&amp;A recovery rate</td>
<td>15.76%</td>
<td>17.40%</td>
</tr>
<tr>
<td>Number of awards received</td>
<td>148</td>
<td>119</td>
</tr>
<tr>
<td>Number of sponsors awarding grants and contracts</td>
<td>90</td>
<td>68</td>
</tr>
<tr>
<td>Number of faculty and staff receiving awards</td>
<td>75</td>
<td>69</td>
</tr>
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Note: The above figures exclude contracts administered by UEI for Student Employment Services (approx. $21 million) and the cooperative research agreement with the U.S. Geological Survey (approx. $2.2 million).

Note: Columns may not total precisely due to rounding and offsets.
### Awards By College/Unit

<table>
<thead>
<tr>
<th>College/Unit</th>
<th>2007-2008</th>
<th>2008-2009</th>
</tr>
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<tbody>
<tr>
<td>Academic Affairs &amp; Library*</td>
<td>$5,010,465</td>
<td>$2,190,479</td>
</tr>
<tr>
<td>Arts &amp; Letters</td>
<td>$1,524,931</td>
<td>$323,660</td>
</tr>
<tr>
<td>Business Administration</td>
<td>$299,798</td>
<td>$1,741,056</td>
</tr>
<tr>
<td>Continuing Education</td>
<td>$789,701</td>
<td>n/a</td>
</tr>
<tr>
<td>Education</td>
<td>$1,163,798</td>
<td>$1,695,441</td>
</tr>
<tr>
<td>Engineering &amp; Computer Science</td>
<td>$4,134,662</td>
<td>$4,160,015</td>
</tr>
<tr>
<td>Health &amp; Human Services</td>
<td>$3,223,956</td>
<td>$3,072,895</td>
</tr>
<tr>
<td>Natural Sciences &amp; Mathematics</td>
<td>$741,824</td>
<td>$1,118,459</td>
</tr>
<tr>
<td>Social Sciences &amp; Interdisciplinary Studies</td>
<td>$7,295,539</td>
<td>$4,839,878</td>
</tr>
<tr>
<td>Other</td>
<td>$661,418</td>
<td>$589,601</td>
</tr>
<tr>
<td><strong>Total Awards Received:</strong></td>
<td><strong>$24,846,092</strong></td>
<td><strong>$19,731,484</strong></td>
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*Included in Academic Affairs is funding from the National Science Foundation for the CSU Louis Stokes Alliance for Minority Participation (LSAMP) program, for which the Provost serves as principal investigator.

### Research Grant and Contract Expenditures

<table>
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<tbody>
<tr>
<td>Total project expenditures</td>
<td>$19,291,003</td>
<td>$20,213,968</td>
</tr>
<tr>
<td>Direct project expenditures</td>
<td>$17,159,563</td>
<td>$18,084,710</td>
</tr>
<tr>
<td>Recovered F&amp;A costs</td>
<td>$2,131,441</td>
<td>$2,129,259</td>
</tr>
<tr>
<td>Average F&amp;A recovery rate</td>
<td>12.4%</td>
<td>11.8%</td>
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Sponsored Research Cost Recovery

Facilities and Administrative (F&A) Costs

The campus recovers a portion of its investment in the facilities and administrative structure that supports research activity. Known as the indirect costs of research, these are distinct from the direct costs related to research projects. Facilities and administrative cost rates, or F&A, are negotiated every three years with the federal government, which recognizes that the work on grants and contracts is conducted using University and UEI resources such as facilities, utilities, libraries and administrative personnel, and that a portion of the cost of that infrastructure should be added to the direct costs of projects. Sacramento State’s current F&A rate is 38 percent of Modified Total Direct Costs (MTDC), and it is applied in all instances except when the sponsor specifically mandates a lower rate or the nature of the project expense does not allow for full recovery, such as with equipment, student stipends, tuition and a portion of subcontracts. For 2008-09, $2,129,259 in F&A costs were recovered, with an average F&A rate of 11.8 percent.

### Allocation of F&A Recovery Across Campus

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<tbody>
<tr>
<td>Research Administration (Post-Award) Costs**</td>
<td>$765,201</td>
<td>$765,203</td>
</tr>
<tr>
<td>Partial Return of F&amp;A to Centers and Institutes</td>
<td>$485,000</td>
<td>$485,000</td>
</tr>
<tr>
<td>Research Administration (Pre-Award Costs)**</td>
<td>$321,240</td>
<td>$393,556</td>
</tr>
<tr>
<td>Research Incentive Funds to Colleges</td>
<td>$150,000</td>
<td>$150,000</td>
</tr>
<tr>
<td>Support for University Projects</td>
<td>$125,000</td>
<td>$80,500</td>
</tr>
<tr>
<td>UEI Project Activity Grants (PAG)</td>
<td>$90,000</td>
<td>$45,000</td>
</tr>
<tr>
<td>Faculty Research Release Time Support</td>
<td>$90,000</td>
<td>$90,000</td>
</tr>
<tr>
<td>Faculty Travel Support Funds</td>
<td>$60,000</td>
<td>$75,000</td>
</tr>
<tr>
<td>Faculty Research &amp; Creative Activity (RCA) Program</td>
<td>$45,000</td>
<td>$45,000</td>
</tr>
<tr>
<td>Total</td>
<td>$2,131,441</td>
<td>$2,129,259</td>
</tr>
</tbody>
</table>

**Academic Affairs and UEI provide additional operational support for the University’s research enterprise.
Initiatives and Partnerships

Sacramento State and the UC Davis Cancer Center: Community and Campus Collaboration

The Sacramento State/UC Davis Cancer Center Partnership to Reduce Health Disparities recorded an exceptionally busy year. The 2008 Collaborative Research Conference, which brought together researchers, community leaders and state officials, focused on a major statewide initiative led by the partnership to connect liver cancer to Hepatitis C exposure and body art such as tattoos and piercings. The research project, led by Heather Diaz of Sacramento State’s Department of Kinesiology and Health Science, and Marlene von Friederichs-Fitzwater of the UC Davis Cancer Center, involves a campaign to increase awareness among college students about practices to ensure safe acquisition of body art and to dispel myths about acquiring Hepatitis C. Building on pilot research data, this project will work with student health centers throughout the UC and CSU systems to roll the campaign out on a statewide level in late 2009 and through 2010.

In addition, the partnership developed research and outreach projects with community groups to focus on health disparity issues related to homelessness, smoking and other risk factors, as well as an emerging project on ethnicity data-collection practices for oncology admissions at hospitals statewide in partnership with the California Cancer Registry.

Center for STEM Excellence: Strengthening Education and Research

Science, Technology, Engineering and Mathematics (STEM)-related activity continues to progress on the Sacramento State campus, and the Center developed additional campus collaborations and increased the connection of many of the STEM disciplines to K-12 and community college programs across the region. Thomas Landerholm of Biological Sciences and Scott Gordon of Computer Science led the initiative in 2008 and continued to provide leadership through the STEM Center’s transition to a new structure and location, effective May 2009.

During 2008, the STEM Center and Teacher Education Professor Daniel Orey received an ARCHES Consortium award for development of website materials to enhance teacher recruitment to STEM disciplines. In addition, Landerholm and Gordon were awarded $12,000 over two years from UEI’s Project Activity Grant program to support the STEM Public Lecture Series and the Expanding Your Horizons (EYH) program. EYH is a national program to encourage young girls to pursue education and careers in STEM areas. Each fall, the campus hosts a regional EYH conference for nearly 500 middle school girls who enjoy a day of hands-on STEM-related learning activities.

“Science is more than a body of knowledge—it is something we ‘do.’ Imagine learning tennis by sitting in a classroom. Like tennis, science can’t be mastered without an authentic hands-on experience. With the help of external funds, Sacramento State students learn to ‘do’ science by working with faculty in the laboratory and field on original research projects.”

— Jill M. Trainer
Dean, College of Natural Sciences and Mathematics

“Ethnomathematics
The language of numbers

Under the Microscope
Science has opened many doors to medical advancements.

Tuesday, April 28, 2009
| 7 p.m.
University Union, Redwood Room | Free community lecture | Free parking
Presented by the Center for STEM (Science, Technology, Engineering and Mathematics) Excellence
www.csus.edu/stem
The inaugural class of STEM Faculty Fellows has begun submitting research proposals. The first to be funded were David Zeigler of the Mathematics and Statistics Department who received an award for undergraduate researchers to investigate questions related to random number generating algorithms, and Mridula Udayagiri from Sociology who, along with Madeleine Fish in Engineering, was funded by NSF for a mathematics teacher train-the-trainer program to encourage women to pursue STEM careers. Of the remaining Fellows, one submitted a proposal in early 2009 and the rest will follow in late 2009 or early 2010.

For 2009-10, five Fellows have been selected, and they include: Environmental Studies Professor Virginia Matzek, Physics and Astronomy Professor Vera Margoniner, Mechanical Engineering Professor Yong S. Suh, Civil Engineering Professor Ben Fell and Chemistry Professor Katherine McReynolds.

The 2008-09 STEM Lecture Series featured excellent speakers and large audiences. This year’s presentations were: CSI Tanzania: Forensic Biology Comes of Age in Africa by Biological Sciences professor Ruth Ballard; Where are the Fish?! by Geology Professor Tim Horner; Under the Microscope: Stem Cells Hold Big Potential for Medical Advances by Jan Nolta, Sacramento State alumnus and director of the UC Davis Stem Cell Program; and Ethnomathematics: The Language of Numbers by Teacher Education Professor Daniel Orey.

For more on the Center for STEM Excellence and its activities, visit www.csus.edu/stem.

Research Centers and Institutes Update

Archaeological Research Center

In 2007-08, Professors Mark Basgall and Michael Delacorte directed a three-month data recovery excavation for the California Department of Transportation in the Owens Valley north of Bishop. Planned improvements to U.S. 395 will impact several sites, one of which contained two dozen buried house-floors dating from circa A.D. 100 to A.D. 600. Exceptionally well preserved, these structures reflect repeated seasonal occupation of riparian habitats associated with the Owens River and its tributaries. Numerous artifacts were cached within the houses, including wholly serviceable projectile points, bifacial blades, plant processing tools and gambling paraphernalia. A strong focus on plant exploitation implies the site was consistently inhabited during spring and early summer for about five centuries, comprising one component of a more extensive subsistence-settlement system that encompassed the broader eastern Sierra Nevada. Analyses are expected to significantly clarify the nature of regional land-use patterns in the early Christian era. For more information on past and present Archaeological Research Center activities, visit www.csus.edu/anth/arc.

California Smart Grid Center

Under the direction of Dean Emir Macari, the California Smart Grid Center (CSGC) at Sacramento State engages in research, review and testing of automated metering infrastructure and the development of practical field solutions for the large-scale integration of Smart Grid technologies.
With support from the California Energy Commission and federal agencies, the Center looks to implement the development of real-time pricing of electricity by providing an unbiased proving ground where utilities, industry and the public sector work together to impact consumer choice, global climate change and energy security.

The Center works in collaboration with California’s utilities to support the development of upgrades to the nation’s electric grid leading to the creation of the Smart Grid. As an engaged academic unit of the College of Engineering and Computer Science, the Center works to develop California’s Smart Grid workforce.

For more on the California Smart Grid Center, visit www.csus.edu/CASmartGridCenter.

**Center for California Studies**

The Center for California Studies, led by Executive Director Tim Hodson, was founded in 1982 by Government Department faculty as a vehicle for encouraging the study of California government, politics and public policies. In recent years, more than 150 Sacramento State faculty and staff have been involved in Center activities. The Center focuses on four areas:

» California Studies, including the annual Envisioning California Studies and California Election Data Archive

» Capital Fellows, including the administration of the Assembly, Executive, Judicial Administration and Senate Fellows programs

» Civic Education, including the LegiSchool Project

» Government Affairs, including the Faculty Research Fellows Program

For more information on the Center for California Studies, visit: www.csus.edu/calst.

**Creative Services**

The Sacramento State Creative Services Team, a unit of Academic Affairs, provides creative and technical multimedia production services to inform and educate Californians. In 2007-08, the team produced webcasts for the California School Boards Association, School Services of California and the statewide K-12 Fiscal Crisis Management and Assistance Team. During a time of fiscal uncertainty, these webcasts allowed for the timely distribution of information to stakeholders and decision-makers and eliminated travel expense for a large audience of participants.

“In support of the well-being of young Californians, Creative Services provided start-to-finish support for the Cal Boating “Safe and Wise Waterways” poster contest. The annual statewide contest involves K-8 students and teachers, with the goal of increasing boating safety awareness through creative activity. Over a six-month period, Creative Services staff produced all campaign and contest elements including an initial announcement poster, applications and teacher support materials, an interactive website, theme buttons, and a flip calendar and poster displaying the winning entries. The Creative Services Team was also proud to serve as part of the judging panel for the poster contest. For the results, visit www.dbw.ca.gov/PosterContest/Archive/Poster2008.

“At Sacramento State we focus on applied research that helps local industry and state agencies advance the wellbeing of our economy.”

—Emir José Macari
Dean, College of Engineering and Computer Science
“In the College of Arts and Letters, the typical faculty member is both a teacher and an artist or a teacher and a scholar. The professor teaching a history class has probably published research on topics related to that course, just as the professor teaching painting is exhibiting her own work in galleries for all to see.”

—Jeffrey D. Mason
Dean, College of Arts and Letters

Working with the California Integrated Waste Management Board and the California Environmental Protection Agency, Creative Services has completed the production of 85 model curriculum units for the California Education and the Environment Initiative (EEI). EEI is an ambitious landmark effort that mandates the development of the EEI curriculum to bring education about the environment to California’s K-12 students.

The Creative Services team assumed a primary role in the production of the final draft curriculum units which included teachers’ guides, student workbooks and supplemental materials consisting of a variety of pictorial dictionaries, word wall cards, maps, posters and other materials.

Upon State Board approval, Creative Services will be involved in implementing required revisions and accessibility features of the model curriculum and preparing the final product for paper and electronic distribution. For more information on the EEI Model Curriculum project, go to www.calepa.ca.gov/Education/EEI/

For more information on Sacramento State Creative Services, visit www.csus.edu/atcs/cs/cs.

Institute for Higher Education Leadership and Policy

Through funding from the Hewlett Foundation, the Institute for Higher Education Leadership and Policy (IHELP) took an up-close look at higher education in California. The results were clear. California is slipping relative to other states and faces some serious challenges in getting its young people educated to the levels required to remain economically competitive. As just one example, California ranks 40th among states in the percentage of high school graduates enrolling directly in college. Californians experience vastly different educational opportunities and outcomes depending on their race, ethnicity and region where they grow up. The study concluded that while some regions in the state are performing much better than others, the regions that are experiencing the most rapid population growth – such as the Inland Empire and the Central Valley – are tending to fare worse. For a copy of the complete report or more on IHELP, visit www.csus.edu/ihe.

Institute for Social Research

The Institute for Social Research (ISR) performs a variety of research activities including program evaluations, surveys, and data analysis for organizations and agencies at all levels of government. While much of ISR’s work focuses on social issues and the delivery of social services, some ISR projects bridge the divide between the social and the physical sciences. A recent study on the pest management practices in California schools exemplifies such projects.

The Department of Pesticide Regulation (DPR) contracted with ISR to perform a survey of all public school districts in the state in 2004 and then again in 2007. The goal of the survey was to monitor progress of the Healthy Schools Act (HSA)
of 2000 by tracking the voluntary adoption of Integrated Pest Management (IPM) and reduced-risk pest management practices.

The study determined that important progress has been made in reducing schoolchildren’s exposure to pesticides. Among the significant findings of the most recent study were that only one percent of school districts use less desired, “non-exempt” pesticides, down from 10 percent in 2002, and fewer districts rely on broadcast herbicides to treat weeds. Physical controls and spot treatment with herbicides are used more often now than in previous years, even though these methods may be more costly to the districts. However, district budget restrictions were not reported as a significant barrier to adopting IPM policies and practices at the time of the survey’s administration. In fact, of all perceived barriers to adoption of IPM practices, the only significant change was a decline in the importance of district budgetary considerations. Given the current fiscal situation in California, it will be interesting to see if this will hold true in the future. For more on ISR or to review the complete report, visit www.csus.edu/isr/.

Office of Water Programs

The College of Engineering and Computer Science’s Office of Water Programs (OWP) received funding in 2007-08 to design and direct process-optimization field studies to help the Sacramento Regional County Sanitation District develop strategies for economically reducing ammonia loading to its Elk Grove wastewater treatment facility.

During the year, OWP continued to provide technical assistance in stormwater research to the California Department of Transportation and other agencies. At a specially constructed test facility on campus, OWP’s Brian Currier, along with faculty and students from the Department of Civil Engineering, directed a series of technology development tests to help Kristar, Inc. refine its design for an underground stormwater filter. For more on OWP, visit www.owp.csus.edu.

Recent Research and Program Highlights

Academic Affairs

California currently has the nation’s largest migrant student population; 43 percent are located in the Central Valley and 55 percent of this group are found in the region served by Sacramento State. Through funding from the U.S. Department of Education, the College Assistance Migrant Program (CAMP), directed by Viridiana Diaz, assists students from migrant and seasonal farmworker backgrounds in the transition from high school to college. In 2008-09 the University served approximately 90 students through the CAMP program. For more, visit www.csus.edu/camp.

The Guardian Scholars program, funded in part by a grant from the Stuart Foundation, is a collaboration of Sacramento State, UC Davis and Cosumnes River College to support current and former foster youth in the successful completion of a college degree. The program provides an integrated system of services with an overall goal of ensuring academic success, encouraging campus engagement, promoting career development and nurturing students into active and socially responsible members of the community. For more, visit www.csus.edu/gs.

Directed by Sheila Macias, the Community Engagement Center facilitates civic learning and community service by linking Sacramento State faculty, staff and students with community organizations. For more, visit www.csus.edu/cec.

Philosophy Professor Michael Epperson, in collaboration with scientists from Georgia Institute of Technology, Lawrence Berkeley National Laboratory, and Plasmas International, received funding from The John E. Fetzer Memorial Trust, Inc., to perform a philosophical and physical investigation of quantum praxiology.
College of Arts and Letters
Directed by Andrew Luchansky, professor of Cello and Chamber Music, the Sacramento State String Project is a multi-faceted music education program that offers instrumental instruction to underserved children, mostly third-eighth graders, of the Sacramento region. The String Project also serves as a model of service learning by providing valuable hands-on teaching experiences for music majors. The University students are trained in instructing children by the internationally renowned master teacher trainer Judy Bossuat and have the opportunity to teach the violin, viola and cello. Funding for the String Project is provided in part by grants from the National Endowment for the Arts, the Heller Foundation and the Teichert Foundation. For more on the String Project or the National String Project Consortium, visit www.csus.edu/stringproject.

College of Business Administration
The study, led by Dean Sanjay Varshney and Professor Dennis Tootelian, will assess the economic costs and benefits to the State of California generated by government contracting with small business (SB) and the Disabled Veteran Business Enterprise (DVBE). An analysis will be conducted to assess the value of SB/DVBE contracts by estimating the amount spent by the state that goes to SB/DVBE, how much of that spending remains in the state, and the impact that those expenditures may have on California’s economy, and the small businesses themselves.

The California Department of General Services is funding a study of small businesses within the state. The study, led by Dean Sanjay Varshney and Professor Dennis Tootelian, will assess the economic costs and benefits to the State of California generated by government contracting with small business (SB) and the Disabled Veteran Business Enterprise (DVBE). An analysis will be conducted to assess the value of SB/DVBE contracts by estimating the amount spent by the state that goes to SB/DVBE, how much of that spending remains in the state, and the impact that those expenditures may have on California’s economy, and the small businesses themselves.

The College of Business Administration recently established an Institute for Business Research and Consulting (IBRC). The Institute will satisfy the research and business consulting needs of the Sacramento region by utilizing the resources of the college including faculty, staff, students and alumni. Professor Hakan Ozcelik is the faculty coordinator for the institute. For more, visit www.cba.csus.edu/IBRC/IBRC.html.

College of Education
With a goal to double the number of mathematics and science teachers produced in the next five years, Sacramento State and California State University, Chico are partnering with three Northern California school districts to enhance their programs for pre-service teachers. The TEMS: Teaching Excellence in Math and Science Noyce Scholars Consortium is funded by the National Science Foundation and provides support for mentoring and advising and for scholars to attend professional conferences. The project also provides scholarships to participants of $10,000 per year for up to two years. Teacher education Professor Deidre Sessoms is the co-investigator for this project. For more, visit www.edweb.csus.edu/scholarships/noyce.
In the spring of 2009, an additional NSF Noyce Teaching Fellowship grant was awarded to Sessoms and Biology Professor Jennifer Lundmark. This grant provides planning funds to establish a partnership between the College of Education, the College of Natural Sciences and Mathematics and area school districts including Sacramento City Unified School District. The goal of the project is to add to the discipline-based focus of the teacher preparation work and introduce more rigorous teacher support programs for new mathematics and science teachers.

Sacramento State is part of the only teaching credential program in the United States in which one can earn a U.S. (California) teaching credential through a study-abroad program. Led by Nadeen Ruiz, professor of Bilingual/Multicultural Education, the California Bi-National Teacher Education Program (Bi-TEP) combines education coursework conducted in California with cultural immersion, intensive language study and student teaching in Guadalajara, Mexico. The overall goal is to prepare teachers to provide effective instruction to English learners. Bi-TEP provides a $7,500 stipend to each student in the Bi-National Credential program and also conducts professional development in public schools to improve educational services to English learners. Bi-TEP is supported by the National Professional Development Program and the U.S. Department of Education. For more, visit www.edweb.csus.edu/bcladmexico/index.html.

Under the direction of Bilingual/Multicultural Education Professor Maria Mejorado, the High School Equivalency Program (HEP) recently received its fourth multi-year grant from the U.S. Department of Education for a study program to help migratory and seasonal agricultural workers and their families pass the General Education Diploma (GED) examination. Counseling services are also provided to help HEP graduates move into better and higher-paying jobs and continue their education at vocational and community colleges. This funding will enable the program to service up to 180 participants each year. For more, visit www.edweb.csus.edu/hep/.

“Research and scholarship are at the center of all that faculty and students do within the College of Education. Good teaching leads to good scholarship, and good scholarship leads teachers and students towards an engagement in discourse that changes systems, schools, community agencies and the lives of children and their families.”

— Vanessa Sheared
Dean, College of Education

College of Engineering and Computer Science

With funding from sponsors including the California Energy Commission, Computer Science Professor Isaac Ghansah has conducted research on information assurance, security, and privacy issues associated with smart grid infrastructure.

Warren Smith, professor of Electrical and Electronic Engineering, develops medical devices to help surgery patients, children with cerebral palsy, doctors and nurses. His research has focused on three areas: anesthesia monitoring, virtual instrument monitoring for human factors engineering
in health care, and wearable medical monitors for everyday living.

College of Health and Human Services

Criminal Justice Professor Xin Ren is collaborating with the Women’s Law Studies and Legal Aid Center of Peking University (WLSLAC) to enhance victim assistance and public awareness about rescuing and assisting victims of trafficking for labor or sexual exploitation. With funding from the US Department of State, the project will provide training programs for legal aid and criminal justice professionals to build a strong local community network for future anti-trafficking campaigns.

Division of Social Work Chair Robin Carter has received funding from the California Mental Health Educational Stipend program for a new three-year period. These stipends provide assistance to graduate social work students with the intent of developing a culturally competent corps of professionals prepared for careers in mental health. Eligible students are expected to graduate with a Master of Social Work (MSW) and commit to employment in a county mental health agency working with the chronically mentally ill following graduation.

Through a multi-year award from the National Institute of Child Health and Human Development, Nursing Professor Bonnie Raingruber has been working to expand Sacramento State’s biomedical and behavioral research capacities. As part of this effort, Raingruber established a research fellows program to help faculty in the College of Health and Human Services (CHHS) collect pilot data to support future proposal submissions to federal health research agencies.

Several faculty-led pilot projects were funded in 2008 through the research fellows program, including:

» Dian Baker, professor of Nursing, aims to reduce vaccine-preventable cancers through translation of the Searching for Hardships and Obstacles to Shots (SHOTS) instrument for use in the Hmong community.

» Physical Therapy Professor Rafael Escamilla is studying how forward and backward lunging exercises affect bilateral knee forces and bilateral hip, thigh and leg muscle activity.

» Using the thumbs to mobilize the spine during physical therapy is often uncomfortable and has been identified as a potential cause of arthritis of the hands. Clare Lewis, professor of Physical Therapy, is working to develop alternative pathways for spinal column mobilization.

» Mary Maguire, professor of Criminal Justice, is looking at the effect of occupational stress on the mental and physical health of police officers. The goal is to improve predictive capacities for who might be at risk for health problems and provide suggestions for interventions.

» Recreation, Parks and Tourism Administration Professor Jennifer Piatt is examining the effects of adaptive sports camps on self-efficacy and quality of life for youth with physical disabilities.

“Faculty research leads to an evidence-based practice in many of our professional fields and provides opportunities for students to be mentored by faculty in scholarly inquiry.”

— Marilyn Hopkins
Dean, College of Health and Human Services
» Raingruber also received fellows funding to compile pilot data on a project involving Tai Chi and meditation for cancer survivors.

College of Natural Sciences and Mathematics

Since 1997, the National Institutes of Health has funded the Bridges to the Baccalaureate project that unites Sacramento State and three local community colleges in an inter-institutional partnership. Under the direction of Biological Sciences Professor Juanita Barrena and Chemistry Professor Mary McCarthy, the Science Transfer Project aims to broaden participation in research careers in the biomedical sciences. The project engages cohorts of promising students enrolled at partner community colleges in the Los Rios Community College District and offers developmental activities, academic support and mentoring, provides early exposure to science research and careers in the biomedical sciences and facilitates a seamless transition to relevant baccalaureate majors at Sacramento State or other four-year universities.

With Research Corporation funding, Sacramento State Chemistry Professor Thomas Savage and Moss Landing Marine Laboratories scientist G. Jason Smith are looking to identify specific enzyme-catalyzed reactions that lead to synthesis of domoic acid from basic precursors. Domoic acid, a neurotoxin synthesized by marine diatoms, is the cause of amnesiac shellfish poisoning in humans and is one of the leading causes of marine mammal mortality on the Pacific coast of North America. Levels of domoic acid production and subsequent poisonings vary markedly from year to year and the molecular events that regulate domoic acid biosyntheses is poorly understood. This work will enable more detailed studies of the molecular regulation of domoic acid biosyntheses to be conducted in the future.

Recovery Act Submissions and Awards

As of October 2009, 24 proposals have been submitted for American Recovery and Reinvestment Act funds and Sacramento State has received the following awards:

» Brad Baker, Chemistry
National Science Foundation, Solid Phase Microextraction to Determine Emission Rates of Sesquiterpenes from Terrestrial Vegetation, $257,795 awarded over two years

» Juanita Barrena, Biological Sciences
National Institutes of Health, Supplement to Sacramento College Coalition for Future Scientists, $60,087 awarded for one year

» Ted Krovetz, Civil Engineering
UC Davis Subaward, CT-ISG: Reimagining Cryptography by Identifying its Culturally-Rooted Assumptions, $46,708 awarded over three years

» Katherine McReynolds, Chemistry
National Science Foundation, MRI: Acquisition of a 500MHz NMR spectrometer, $655,125 has been awarded over three years

» Brad Baker, Chemistry
National Science Foundation, Solid Phase Microextraction to Determine Emission Rates of Sesquiterpenes from Terrestrial Vegetation, $257,795 awarded over two years

» Juanita Barrena, Biological Sciences
National Institutes of Health, Supplement to Sacramento College Coalition for Future Scientists, $60,087 awarded for one year

» Ted Krovetz, Civil Engineering
UC Davis Subaward, CT-ISG: Reimagining Cryptography by Identifying its Culturally-Rooted Assumptions, $46,708 awarded over three years

» Katherine McReynolds, Chemistry
National Science Foundation, MRI: Acquisition of a 500MHz NMR spectrometer, $655,125 has been awarded over three years

» Deidre Sessoms, Teacher Education and Jennifer Lundmark, Biological Sciences
National Science Foundation, Beyond Seamless Transitions: Blurring the Boundaries Along the Learning-to-Teach Curriculum, $74,760 awarded for one year

» Alice Tom, Continuing Education
Sacramento Employment and Training Agency, Occupational Skills Training in Critical Occupational Clusters, $210,950 awarded for one year
The California Department of Fish and Game (DFG) is entrusted by the State of California to protect and restore native wildlife populations. Data indicates that the numbers of Sacramento Valley red fox may have declined considerably and little is known of the relative importance of potential threats to its existence. With funding from the DFG, Biological Sciences Professor Ben Sacks has been conducting research on the native Sacramento Valley red fox to gain valuable information so that priorities can be identified to ensure its continued existence.

Funded by the US Department of Energy, Chemistry Professor Jacqueline Houston and graduate student Heidi Van Atta, are studying the complex chemistry of water-rock interactions. By quantifying the kinetics of metal sorption to mineral surfaces, they hope to better understand the fate and transport of environmental contaminants in natural systems. Through collaboration with geologists and chemists at Lawrence Livermore National Laboratory, experiments are conducted using model systems that allow fundamental rate data to be collected from both water chemistry and solid-state nuclear magnetic resonance (NMR) techniques. Houston and her collaborators hope to predict the timescales for metal complexation and ultimately assess the safe disposal of metal-containing waste forms.

The California Mathematics and Science Partnership (CaMSP) seeks to improve student achievement in mathematics and science through intensive and sustained teacher professional development. The Center for Mathematics and Science Education (MASE), in collaboration with the Elk Grove Unified School District, has received funding to design and implement an intensive professional development program on teaching science in grades three through five. This program, overseen by Geology Professor Judi Kusnick and interim MASE director Rich Hedman, will provide teachers the opportunity to work collaboratively with experienced teacher leaders and university faculty with the goal of improved teacher knowledge of science and enhanced pedagogical repertoire.

The Roberts Family Development Center, located in North Sacramento, opened its door five years ago to assist families in need. Funded by a partnership between GenCorp and Intel, and under the direction of Professor Doraismwamy Ramachandran, faculty and students from the Department of Mathematics and Statistics provides assistance to the Center to improve economically disadvantaged children’s attitude and aptitude in mathematics to enhance their overall academic performance and increase their chances of attending college. In collaboration with faculty and students from the Natural Sciences, Computer Science, Engineering and Child Development, the project is being expanded to a literacy program and structured learning of mathematics.

“Although there is an increased need for external funding to support scholarly activities during tight budget times, the principle of supporting research with money from outside the university is always important. Competition for funding challenges faculty members to not only raise the quality of their work, but also to think creatively about ways to involve students or community partners in their research agendas. As a result, faculty become more widely recognized, students have greater opportunities to learn, and the entire university community benefits.”

— Charles W. Gossett
Dean, College of Social Sciences & Interdisciplinary Studies

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Advocates of marine aquaculture tout its potential to provide a reliable and nutritious food source while easing the United States’ $7 billion trade deficit in seafood. On the other hand, critics fear it will deplete wild fish stocks, pollute marine environments and produce seafood that is chemically and genetically tainted. The debate is still in its formative stages, with hundreds of stakeholders vying to influence policy decisions. Public policy Professor William Leach is collaborating with Professor Christopher Weible at the University of Colorado, Denver to investigate 15 public-private partnerships across the United States that are shaping aquaculture research and policy. The goal of the study is to understand how to design such partnerships to facilitate learning and consensus building, leading ultimately to more effective policymaking.

The head of Special Collections and University Archives, Sheila O’Neill, along with a team of archivists and graduate students, is processing a collection of papers from Basil J. Vlavianos (1903-1994), one of the most significant figures of 20th century Greek-American life. Once fully processed, the Vlavianos Collection will offer scholars a unique resource for the study of modern Hellenism, trans-national migration, bi-national identity, cultural internationalism, comparative law, North Atlantic Diaspora communities, international human rights activism, and Greek-American relations. For more, visit www.library.csus.edu/vlavianos/index.html.
Grant and Contract Awards
Received from July 1, 2007 through June 30, 2008

**Academic Affairs**
Joseph Sheley
National Science Foundation.......$800,000
CSU Louis Stokes Alliance for Minority Participation (LSAMP) Program

**Academic Technology and Creative Services**
Jean-Pierre Bayard
CSU Trustees ....................................................$3,000
The MERLOT Faculty ELIXR Project—Faculty Development Centers and Online Repositories

**Michaeline Veden**
California Dept. of Consumer Affairs.................................$3,676
LATC Graphic Services
California Dept. of Corrections and Rehabilitation ......................$80,000
Peace Office Recruitment Material

California Dept. of Corrections and Rehabilitation ......................$75,000
Creative Services for Communication UNIC Division
California Dept. of Corrections and Rehabilitation ......................$49,000
Plata Workforce Development
California Dept. of Corrections and Rehabilitation ......................$43,620
Interactive Training CD for New Commissioners
California Dept. of Health Services...............................$100,000
WIC Nutrition Education Amendment 3
California Dept. of Parks and Recreation..............................$100,000
Graphic Design Services Task Order 3, Amendment 5
California Dept. of Veterans Affairs.................................$40,000
Veterans Affairs Branding/Logo
California Integrated Waste Management Board.............................$349,146
EEI Project Graphic Design Amendment 1
California School Boards Association.........................................$11,000
CSBA Webcast
California STRS...........................................$30,000
Video and DVD Production Amendment 1
California STRS...........................................$9,316
Video and DVD Production Amendment 2
California State Teachers’ Retirement System..............................$99,543
CalSTRS Video/DVD Project

CSU Trustees .................................................................$2,600
Conference Documentation Materials
EMT Associates, Inc. ..................................................$23,500
“Difficult Issues” DVD Training Modules
Integrated Waste Management Board ...........................................$1,411,999
EEI Project Graphic Design
Integrated Waste Management Board .........................................$4,999
EEI Project Graphic Design Supplement
Kern County ..............................................................$150,000
EEI Project Graphic Design Supplement
Integrated Waste Management Board .........................................$18,500
FCMAT LAO’s Analysis of Governor’s Budget Teleconference and Webcast
Public Health Institute ....................................................$9,642
Skin Cancer Education Week Elementary School Kit Project
San Luis Obispo County .....................................................$160,000
Produce Field Testing Documents for 12 EEI Units
San Luis Obispo County .....................................................$150,000
Produce Field Testing Documents Amendment 1
Victim Compensation and Government Claims Board .....................$22,304
Poster for Victim Compensation Board

**Early Assessment Program**
Joy Salvetti
Stuart Foundation .....................................................$175,000
Guardian Scholars Program
Educational Opportunity Program
Marcellene Watson-Derbigny
U.S. Dept. of Education.................$462,100
College Assistance Migrant Program (CAMP)

Freshman Programs
Lynn Tashiro
CSU Trustees........................................$13,521
Project Baseline – Information Literacy Study and Assessment of Sacramento State Freshman Programs

Graduate Studies
Chevelle Newsome
U.S. Dept. of Education...............$219,996
McNair Scholars Program

Services to Students with Disabilities
Melissa Repa
U.S. Dept. of Education...............$254,540
Student Support Services Program

College of Arts and Letters
Communication Studies/Journalism
Barbara O’Connor
James Irvine Foundation...............$100,000
Brokers of Expertise Project
Paul Werth Associates..................$5,000
PR Planning and Management Class
Sacramento County.........................$28,175
311 Public Survey Project
Spencer Foundation.......................$15,000
Brokers of Expertise Symposium

Stuart Foundation.........................$50,000
Brokers of Expertise Project

Verizon Foundation......................$9,500
Needs Assessment of California Educators for Brokers of Expertise Project
William and Flora Hewlett Foundation..................$850,000
Brokers of Expertise Project

Mark Stoner
Integrated Waste Management Board.................................................$20,371
Achieving Peak Performances in Public Presentations

History
Christopher Castaneda
California Dept. of Parks and Recreation........................................$7,000
North Central Information Center

Charles Postel
Folsom Cordova Unified School District........................................$17,549
Every Teacher an Historian – Merging Content and Discipline in American History
Placer County........................................$17,431
Teaching American History Grant
Placer County........................................$16,983
Teaching American History Grant – Knowing History and Thinking History
Placer County........................................$7,920
Teaching American History Grant
San Juan Unified School District...........$22,891
Teaching American History Grant

Lee Simpson
Yuba County........................................$65,000
Record Searches

Music
Stephen Blumberg
Sacramento County.........................$12,500
Cultural Arts Awards Program – 31st Annual Festival of New American Music

Julian Dixon
Sacramento Metro Arts Commission.............................................$600
Down in the Valley 2008 Tuba Festival
Grants and Contracts, continued

Andrew Luchansky
National String Project Consortium $1,000
Sacramento State String Project

Philosophy
Michael Epperson
John E. Fetzer Memorial Trust $209,000
Philosophical and Physical Investigation of Quantum Praxiology

College of Business Administration
Beom-Jin Choi
Chungbuk Technopark $10,000
A Case Study on Medical and Mechatronics Clusters in the USA

Stan Taylor
California Dept. of Developmental Services $125,000
Developmental Disability Service Act
California Dept. of Developmental Services $80,000
Developmental Disability Service Act Amendment 1

Dennis Tootelian
California Dept. of Boating and Waterways $60,000
Life Jacket Wear Rate Study Phase I
California Dept. of Parks and Recreation $24,798
Columbia State Historic Park Study

College of Continuing Education
Susan Gonzalez
California Dept. of Corrections and Rehabilitation $45,042
CDCR Reentry Workshops
California Dept. of Corrections and Rehabilitation $11,819
CDCR Reentry Webinar

Bernadette Halbrook
Hubei Local Taxation Bureau $576,000
Taxation Training for Chinese Tax Professionals

William Sharar
AMIDEAST Inc. $8,500
Cyprus-America Scholarship Program
Dongeui University Institute Technology $28,000
Short-term English Language and American Culture Program

Alice Tom
Nihon University $40,820
American Language and Culture Program
Seoil College $31,520
English Language and American Culture Program
World Learning, Inc. $48,000
Armenian Water Users Associations Education Program

College of Education
Academic Talent Search
Terry Thomas
David Steinberg $5,000
Academic Talent Search Scholarships

Bilingual/Multicultural Education
Maria Mejorado
UC Regents $14,000
2007-08 IME Fellowship Award for GED Testing for Students
U.S. Dept. of Education $470,000
High School Equivalency Program (HEP)

Nadeen Ruiz
San Joaquin County $135,835
Migrant Education Achievement Academy, 14-Day Intervention Program in Reading, Writing and Mathematics
U.S. Dept. of Education $283,566
California Bi-national Teacher Education Program (Bi-TEP)

Child Development
Kimberly Gordon Biddle
Child Action, Inc. $10,089
Quality Child Care Collaboration

Special Education, Rehabilitation, School Psychology and Deaf Studies
Bernice Bass de Martinez
UC Regents $30,000
University Centers of Excellence in Developmental Disabilities Amendment 1

Guy Deamer
U.S. Dept. of Education $149,847
Long Term Training in Rehabilitation Counseling
U.S. Dept. of Education $150,000
Long Term Training in Rehabilitation Counseling
Teacher Education
Carolyn Jaynes
UC Regents $23,655
Seeds of Science/Roots for Reading

Daniel Orey
ARCHES $10,000
STEM Teacher Recruitment

Deidre Sessoms
CSU Chico Research Foundation $11,653
Robert Noyce Scholarship Program
Stanford University $4,000
PACT Beginning Teacher Effectiveness Study Survey

John Shefelbine
UC Regents $20,000
California Reading and Literature Project NCLB Supplement

Electrical and Electronic Engineering
Warren Smith
Carolinas Medical Center $5,100
Applying Automaticity Theory to Simulator Training to Enhance Operative Performance
Shriners Hospitals for Children $59,497
Quantitative Assessment of Participation of Children with Cerebral Palsy (Year 3)

Mathematics Engineering Science Achievement (MESA) Center
Jean Crowder
UC Regents $300,000
Sacramento State-UC Davis MESA Center

Mechanical Engineering
José Granda
UC San Diego $10,000
California Space Grant Consortium (Year 2)

MESA Engineering and Computer Science Program (MEP)
Madeleine Fish
Intel Foundation $15,000
Fast Track Math
National Science Foundation $125,000
Scholars Program in Engineering and Computer Science
UC Regents $12,500
MESA-NAF Scholarship Grant

College of Engineering and Computer Science
Dean’s Office
Emir Macari
GenCorp Foundation $25,000
Support for ECS Programs

Computer Science
Madeleine Fish
UC Regents $28,125
MEP/NSF Scholarship Grant Amendment 3
UC Regents $18,000
MEP Amendment 2

College of Health and Human Services
Criminal Justice
Miki Vohryzek-Bolden
California Dept. of Corrections and Rehabilitation $146,548
Gang Management and Housing
California Dept. of Corrections and Rehabilitation $31,863
Assist in the Development of an Emergency Preparedness Plan

Office of Water Programs
Ramzi Mahmood
California Dept. of Transportation $3,487,500
Stormwater Monitoring
Grants and Contracts, continued

Emergency Management
Agency....................................................$108,571
CAL-MMET Program
UC Regents..................................................$108,506
California Sex Offender Management Board Subagreement

Ricky Gutierrez
Center for California Studies Faculty Research Fellows Program..............$13,500
California Employment Preparation for Prisoners

Russell Loving
California Dept. of Corrections and Rehabilitation........................................$97,146
Sex Offender Management Board

Kinesiology and Health Science
Daryl Parker
Commission on POST..............................$7,500
Juvenile Corrections Core Course Amendment 2

Roberto Quintana
El Dorado Union High School District......................................................$85,080
Carol M. White Physical Education Program

Nursing
Dian Baker
UC Davis..................................................$10,000
Subcontract with the Center for Excellence in Developmental Disabilities at the MIND Institute

Bonnie Raingruber
National Institutes of Health..............$91,800
Sacramento State Biomedical and Behavior Research Center

National Institutes of Health..............$30,000
Academic-Communication Unity Collaboration Grant on Adolescent Obesity
Robla School District.......................$7,000
Statistical Analysis and Workshops for the PEP Wellness Center

Ann Stoltz
Sacramento Employment and Training Agency.............................................$400,000
Nurse Advance – A BSN Distance Learning Project

Social Work
Sylvester Bowie
UC Berkeley.............................................$1,596,528
2007-08 Title IV-E Social Work Stipend Program

Robin Carter
UC Regents.............................................$491,750
2007-08 Mental Health Stipend Program

College of Natural Sciences and Mathematics

Biological Sciences
Juanita Barrena
California Wellness Foundation..............$75,000
Preparation of Pre-Health Professional Students
National Institutes of Health..............$209,736
Sacramento College Coalition for Future Scientists (Year 8)
Office of Statewide Health Planning and Development...........................................$10,000
Health Professionals Pipeline Partnership Project Program

Chemistry
Tom Savage
Research Corporation..................$13,928
Elucidation of the Biochemical Pathway to the Marine Neurotoxin Domoic Acid

John Spence
American Chemical Society.............$26,000
Synthesis, Thermal, and Photochemical Reactivity of Highly Conjugated Enediyynes

Geology
Kevin Cornwell
Natural Heritage Institute..............$29,243
Sierra Mountain Meadows: Developing an Integrated Regional Water Management Plan Amendment 1

Judi Kusnick
UC Regents.............................$54,611
UC Davis/Inquiry Practice
UC Regents..............................$38,367
Sacramento Area Science Project (SASP)
UC Regents..............................$10,000
Sacramento Area Science Project (SASP) NCLB Supplement

Mathematics and Statistics
Scott Farrand
Placer County..........................$36,000
Mathematics Study Summer Institute
UC Los Angeles.........................$124,010
CMP Amendment 2
UC Regents..............................$16,500
CSUS Math Project Amendment 2
UC Regents..............................$20,000
Math Project Workshops
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<td>CDCR Medical Inspections</td>
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<td>MacNaughton, Inc.</td>
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<td>Optimization and Characterization of Liquid Crystalline Shutters for 3-D Graphics</td>
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<th>Lynn Tashiro</th>
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<td>Project “Baseline” Information Literacy Study and Assessment of CSUS Freshman Programs Amendment 2</td>
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<td>Tina Biorn</td>
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<td>California Dept. of Transportation</td>
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<td>Native American Graves Protection and Repatriation Act (NAGPRA) Compliance</td>
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<td>Jerry Johnson</td>
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<td>Native American Graves and Repatriation Amendment 7</td>
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<td>Mark Basgall</td>
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<td>Manzanar/Independence Four-Lane Phase III Data Recovery</td>
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<td>Manzanar Pre-Field Work (Task Order 4)</td>
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<td>Ed Powers Rehab Phase III Data Recovery Pre-Field (Task Order 5)</td>
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<td>Knights Valley SR–128 (Task Order 6)</td>
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<td>Marin-Sonoma Narrows (Task Order 7)</td>
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<td>Field Geographic Information Systems (GIS)</td>
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<td>California Military Dept.</td>
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<td>Camp Roberts Survey</td>
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<td>MWH Americas, Inc.</td>
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<td>Lake Oroville Fluctuation Zone</td>
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<td>U.S. Dept. of the Interior</td>
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<td>Storm Cloud Fire Fence Reconstruction Project</td>
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<td>CA-SAC-29 Amendment 1</td>
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<td>Tim Hodson</td>
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<td>California Latino Legislative Caucus Institute</td>
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<td>Polanco Fellowship Program 2007-08</td>
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<td>William Leach</td>
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<td>Georgia Institute of Technology</td>
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<td>Evaluating Aquaculture Partnerships – An Institutional and Stakeholder Analysis</td>
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<th>Economics</th>
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<td>Jessica Howell</td>
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<td>Institutional Practices</td>
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<th>Suzanne O’Keefe</th>
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<td>California Dept. of Mental Health</td>
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<td>Peer Review of Early and Periodic Screening, Diagnosis and Treatment (EPSDT) Forecasting Methodology</td>
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<td>ACES Benefit Model Analysis</td>
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<td>ACES Benefits Model Analysis Supplement</td>
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Grants and Contracts, continued

**Environmental Studies**
Dudley Burton
California Dairy Campaign $15,000 Evaluation of Dairy Lagoons

**Gerontology**
Cheryl Osborne
California Dept. of Social Services $12,500 Gerontology Training

**Institute for Higher Education Leadership and Policy**
Nancy Shulock
Campaign College Opportunity $10,000 Model for Simulating Eligibility Rates and Report entitled “Moving Forward: Increasing Latino Enrollment in California’s Public Universities”
Higher Education Policy Institute $52,000 Higher Education Policy Institute’s P-16 Councils Study
William and Flora Hewlett Foundation $750,000 General Support Grant for IHELP II

**Institute for Social Research**
Ernest Cowles
California Air Resources Board $65,515 Off-Highway Vehicle and Pleasure Craft Phone Surveys
California Children and Families Commission $273,606 First 5 Annual Report
California Dept. of Social Services $650,377 DSS Hourly Task Guidelines
California Dept. of Social Services $157,986 PIP Survey Project
California Dept. of Social Services $91,952 PIP Survey Project Amendment 1
California Dept. of Social Services $150,000 In Home Support Services
The Nature Conservancy $347 Landowner Survey Services Amendment 1
Sacramento County $34,716 Sacramento County Drug Court Program
Sacramento County $2,517 Food Stamp Estimation Model Amendment 1

**Psychology**
Lawrence Meyers
California Dept. of Corrections and Rehabilitation $197,436 Technical Assistance on Testing
California Dept. of Corrections and Rehabilitation $180,144 Training Standards for Correctional Officer, Youth Correctional Officer, and Youth Correctional Counselor
Commission on Peace Officer Standards and Training $126,245 Juvenile Corrections Core Course

**President’s Office**
Lisa Hall
California Dept. of Transportation $600,385 Sacramento State Tram Project

**Student Affairs**
Heather Dunn Carlton
Prevention Research Center $30,000 Safer California Universities
Safer California Schools $14,000
Sacramento County $15,000 Reduction of Binge Drinking State Incentive Grant
Sacramento County $2,033 Network Regional Funds for the Reduction of Binge Drinking
Analía Mendez, Career Center
Partnership for Public Service $3,000 Call to Serve Grant

**Public Policy and Administration**
Robert Wassmer
California Dept. of Conservation $10,000 Tax Incentive Project
Grant and Contract Awards
Received from July 1, 2008 through June 30, 2009

**Academic Affairs**
Joseph Sheley
National Science Foundation...........$800,000
CSU Louis Stokes Alliance for Minority Participation (LSAMP) Program

**Academic Technology and Creative Services**
Michaeline Veden
California Dept. of Boating and Waterways..........................$100,000
Graphic Design, Products, Print, Web Development and Maintenance Amendment 1
California Dept. of Consumer Affairs.............................$29,500
Bureau of Automotive Repair – Diesel Training Module Task Order 1
California Dept. of Corrections and Rehabilitation.................$50,000
Communication Division Services
California Dept. of Corrections and Rehabilitation..................$40,000
Peace Officer Recruitment Materials
California Dept. of Corrections and Rehabilitation..................$30,000
Medical Recruitment Products
California School Boards Association.................................$11,000
CSBA Forecast Webcast on January 15, 2009

**Early Assessment Program**
Joy Salvetti
Stuart Foundation..........................$175,000
Guardian Scholars

**Graduate Studies**
Chevelle Newsome
U.S. Dept. of Education......................$219,996
McNair Scholars Program

**Services to Students with Disabilities**
Melissa Repa
U.S. Dept. of Education......................$254,540
Student Support Services

**Administration and Business Affairs**
Public Safety
Ken Barnett
CSU Trustees.................................$25,000
Homeland Security Subaward

**College Assistance Migrant Program (CAMP)**
Marcellene Watson-Derbigny
U.S. Dept. of Education......................$422,976
College Assistance Migrant Program (CAMP)
U.S. Dept. of Education......................$462,100
College Assistance Migrant Program (CAMP)
Western Union Cy Pres Trust..................$10,000
CAMP Scholars Internship Program Project

**Communication Studies/Journalism**
Barbara O’Connor
Sacramento County.........................$2,500
Stormwater Outreach Program Research Analysis
Grants and Contracts, continued

**Foreign Languages**

**Christine Lanphere**

UC Regents..............................$35,000
Capital Foreign Language Project

**Kazue Masuyama (for Carol Eberhart)**

UC Regents..............................$59,999
Capital Foreign Language Project

**Kazue Masuyama**

UC Davis..........................................$5,750
Samuel Jackman Middle School Foreign Language Project

**History**

**Christopher Castaneda**

Bureau of Reclamation......................$100,000
Record Searches Amendment 1

California Dept. of Parks and Recreation...........................................$8,100
Historical Property Records for Amador, El Dorado, Nevada, Placer, Sacramento, and Yuba Counties

**Charles Postel**

Folsom Cordova Unified School District..............................$17,549
Every Teacher an Historian – Merging Content and Discipline in American History

Placer County......................................$54,644
Teaching American Grant Year 2

**Sally Torpy**

California Dept. of Transportation.........$8,900
Record Searches for District 3

**Music**

**Stephen Blumberg**

National Endowment for the Arts......$10,000
2009 Festival of New American Music

Sacramento County..............................$12,218
Cultural Arts Awards Program: 32nd Annual Festival of New American Music

**Andrew Luchansky**

National String Project Consortium.............................................$1,000
Sacramento State String Project 2009

Teichert Foundation..........................$7,000
Sacramento State String Project

**College of Business Administration**

**Stan Taylor**

California Dept. of Developmental Services............$125,000
Developmental Disability Services Act

**Dennis Tootelian**

California Board of Equalization........$450,000
Change Management Program to a Paperless Operation

**College of Education**

**Bilingual/Multicultural Education**

**Maria Mejorado**

U.S. Dept. of Education.......................$470,000
High School Equivalency Program Year 5

U.S. Dept. of Education.......................$451,221
High School Equivalency Program Year 1

**Nadeen Ruiz**

U.S. Dept. of Education.......................$280,381
California Binational Teacher Education Program

**Child Development**

**Kristen Alexander**

Amini Foundation..............................$8,000
Affective Memory and Authenticity in the Developmental Context

**Kimberly Gordon Biddle**

Child Action, Inc............................$10,382
Quality Child Care Collaborative
**Grants and Contracts, continued**

**Lynda Stone**  
UC Berkeley ........................................ $20,000  
UC/CSUS Collaborative Links  
Dawson Amendment 9

**Teacher Education**

**Janet Hecsh**  
CSU Trustees ........................................ $5,000  
Give Students a Compass: College  
Learning, General Education and  
Student Success

**Deidre Sessoms**

CSU Chico Research Foundation ...... $75,070  
Collaborative Robert Noyce Scholarship  
Program Amendment 1

National Science Foundation........... $74,760  
ARRA – Beyond Seamless Transitions:  
Blurring the Boundaries Along the  
Learning-to-Teach Continuum

**John Shefelbine**

Sacramento City Unified  
School District............................. $43,833  
Small Learning Communities  
UC Regents........................................ $37,073  
California Reading and Literature Project

**Special Education, Rehabilitation,  
School Psychology and Deaf Studies**

**Bernice Bass de Martinez**

UC Regents........................................ $20,000  
University Centers of Excellence in  
Developmental Disabilities Amendment 2

**Kathleen Gee**

U.S. Dept. of Education...................... $199,721  
Project UPLIFTED: University Preparation  
for Low Incidence Fully-Qualified  
Teachers in Educationally Diverse Settings

**College of Engineering and  
Computer Science**

**Emir Macari**

UC Regents........................................ $100,000  
Smart Grid Center

**Civil Engineering**

**Karen Hansen**

Charles Pankow Foundation.............. $25,000  
Enhancing Integrated Project Delivery  
Curriculum

**Computer Science**

**Isaac Ghansah**

California Dept. of  
Health Care Services......................... $9,945  
Computer Forensic Investigation  
California Energy Commission........ $200,000  
Smart Grid

**Electrical and Electronic Engineering**

**Pradeep Setlur**

Dow AgroSciences LLC.................... $91,916  
Research Acceleration Through  
Application of Automation

**Mechanical Engineering**

**José Granda**

UC San Diego................................. $10,000  
California Space Grant Consortium – Year 3

**MESA Engineering and Computer Science  
Program (MEP)**

**Madeleine Fish**

Buck Foundation............................. $50,000  
Fast Track Math Expansion

The Sacramento State smart grid team comprised of Suresh Vadhva, Isaac Ghansah, Emir José Macari and John Oldenburg, works with California and national utilities to support the development of upgrades to the nation’s electric grid.

National Science Foundation........... $125,000  
NSF Scholars Program in Engineering  
and Computer Science

UC Regents........................................ $5,000  
MEP Support Amendment 3

**Office of Water Programs**

**Brian Currier**

Kri Star Enterprises, Inc................. $75,654  
Perk Filter Testing and Performance  
Verification

Ramzi Mahmood,  
California Dept. of  
Transportation............................. $3,487,500  
Stormwater Monitoring Year 2
### Grants and Contracts, continued

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<tr>
<th>Project Title</th>
<th>Principal Investigator</th>
<th>Funding Agency</th>
<th>Amount</th>
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<td>Toxic Substances Control</td>
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<td>Kurt Ohlinger</td>
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<td>Miki Vohryzek-Bolden</td>
<td>California Dept. of Corrections and</td>
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<td>Assistance in the Development of an</td>
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<td>Ricky Gutierrez</td>
<td>Ferrets Anonymous</td>
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<td>Ferret Survey of North American Wildlife Agencies</td>
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<td>Russell Loving</td>
<td>Status Assessment of the Native Sacramento Valley Red Fox</td>
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<td>Associate Degree in Nursing to Bachelor of Science in Nursing Articulation Program</td>
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<td>Biological Sciences</td>
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<td>Juanita Barrena</td>
<td>National Institutes of Health</td>
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<td>G.O. Graening</td>
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<td>Ben Sacks</td>
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<td>Jacqueline Houston</td>
<td>Lawrence Livermore National Laboratory</td>
<td>$50,563</td>
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<td>Transformation of Meta-Stable Aluminum to Kaolinite: A Solid State NMR Study</td>
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<td>Katherine McReynolds</td>
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<td>ARRA-Synthesis of Novel Water-Soluble Glycodendrimers as Anti-HIV Agents</td>
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### UC Regents:

- **$200,000**
- **$11,500**
- **$77,280**
- **$45,645**
- **$4,564**
- **$1,628,671**
- **$205,195**
- **$161,941**
- **$12,960**
- **$50,563**
- **$17,664**
Grants and Contracts, continued

Geology

Timothy Horner
Sacramento City........................................ $26,298
Spawning at the Lower Sunrise Area of the American River
Sacramento City........................................ $24,573
Spawning Gravel Assessment at Sailor Bar Site

Judi Kusnick
Elk Grove Unified School District... $235,488
Excellence in Science Instruction (eSCI)
UC Davis.................................................. $12,419
Science and Academic Literacy
UC Regents.............................................. $57,983
UCD/Inquiry Practice
UC Regents............................................ $21,714
Sacramento Area Science Project (SASP)

Mathematics/Statistics

Scott Farrand
Placer County.......................................... $25,000
California Mathematics and Science Partnership Math Grant Program
Placer County.......................................... $23,650
Rigorous Instruction in Mathematics Academic Year Professional Development
UC Los Angeles....................................... $124,010
CMP Amendment 4
UC Regents........................................... $24,001
CSUS Mathematics Project-NCLB Funds

Geetha Ramachandran
Controller............................................... $20,000
Review by Division of Audits Year 2

Doraiswamy Ramachandran
GenCorp Foundation......................... $12,500
GenCorp-Intel Mathematics and Literacy Project at the Roberts Family Development Center
Intel Foundation.................. $25,000
GenCorp-Intel Mathematics and Literacy Project at the Roberts Family Development Center

David Zeigler
Mathematical Association of America.................. $27,500
Random Number Generation Models

Physics and Astronomy

Vassili Sergan
Kent State University................... $10,000
Super Vision Project Amendment 1

College of Social Sciences and Interdisciplinary Studies

Anthropology

Pei-Lin Yu
California Dept. of Transportation.... $64,146
Native American Graves Protection and Repatriation Act (NAGPRA) Consultations

David Zeanah
Stanford University..................... $13,847
Anthropogenic Fire, Human Foraging Strategies, and Ecosystem Dynamics in Western Australia Desert

Archaeological Research Center

Mark Basgall
California Dept. of Transportation... $95,000
Duhig Road Project Amendment 1

California Dept. of Transportation.....$5,000
GPS/GIS Tasks Services Agreement
MWH Americas, Inc. ....................... $450,000
Lake Oroville Project Task Order 1
MWH Americas, Inc. ....................... $200,000
Fluctuation Zone Site Inventory, Lake Oroville Project

Center for Collaborative Policy

William Leach
University of Colorado............... $115,329
Evaluating Aquaculture Partnerships: An Institutional and Stakeholder Analysis

Professor of Anthropology Pei-Lin Yu is working to facilitate the curation of archaeological items held in the Anthropology Collections Repository in accordance with the Native American Graves Protection and Repatriation Act (NAGPRA).
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<td><strong>Ethnic Studies</strong></td>
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<td>Gregory Mark</td>
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<td>University of Hawaii $39,645</td>
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<td>Guided Goal Setting</td>
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<td>Cheryl Osborne</td>
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<td>California Dept. of Social Services $12,500</td>
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<td>Campaign for College</td>
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<td>Opportunity $13,000</td>
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<td>Shortages in STEM Degree Production in California Colleges and Universities</td>
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<td>CSU Trustees $53,000</td>
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<td><strong>Institute of Social Research</strong></td>
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<td>Ernest Cowles</td>
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<td>California Children and Families Commission $103,519</td>
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<td>First 5 Annual Report</td>
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<td>First 5 California-Program Disbursement</td>
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<td>California Dept. of Mental Health $177,828 Consumer Survey</td>
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<td>California Dept. of Social Services $1,077,180</td>
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<td>IHSS Time Utilization Impact Assessment and Continuous Improvement Project Year 2</td>
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<td>California Dept. of Social Services $922,000</td>
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<td>IHSS Time Utilization Impact Assessment and Continuous Improvement Project</td>
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<td>California Dept. of Social Services $150,000 In Home Support Services 2008-09</td>
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<td>Judicial Council of California $245,289 2010 Language Need and Interpreter Use Study</td>
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<td>Sacramento County $59,401</td>
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<td>Sacramento County Drug Court Program</td>
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<td><strong>Psychology</strong></td>
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<td>Gregory Hurtz</td>
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<td>Commission on Peace Officer Standards and Training (POST) $60,000 Basic Course Competency Project</td>
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<td><strong>Lawrence Meyers</strong></td>
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<td>Commission on Peace Officer Standards and Training (POST) $151,200 Training Standards Amendment 2</td>
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<td>Commission on Peace Officer Standards and Training (POST) $73,896 State Vision and Hearing Standards</td>
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<td><strong>Sociology</strong></td>
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<td>Kathryn Hadley</td>
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<td>American Sociological Association $7,000 Deconstructing the Model Minority Experience in an Urban High School</td>
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<td><strong>Student Affairs</strong></td>
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<td>American Council on Education $100,000 Success for Veterans</td>
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<td><strong>University Library</strong></td>
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<td>George Paganelis</td>
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<tr>
<td>Institute of Turkish Studies $2,500 Institute of Turkish Studies Library</td>
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</tbody>
</table>
California State University, Sacramento offers life-changing opportunities for our students, preparing them to be leaders in their fields and communities. Our teacher-scholars have made superior teaching a top priority. We offer 60 undergraduate degrees and 40 graduate degrees in eight Colleges – Arts and Letters, Business Administration, Continuing Education, Education, Engineering and Computer Science, Health and Human Services, Natural Sciences and Mathematics, and Social Sciences and Interdisciplinary Studies.
Selected Research Centers and Institutes

The Archaeological Research Center | www.csus.edu/anth/arc
California Smart Grid Center | www.csus.edu/CASmartGridCenter
Center for African Peace and Conflict Resolution | www.csus.edu/org/capcr
Center for California Studies | www.csus.edu/calst
Center for Collaborative Policy | www.csus.edu/ccp
Center for Health and Human Services Research
Center for Interdisciplinary Molecular Education, Research and Advancement | www.csus.edu/org/mbigweb
Center for Mathematics and Science Education | www.csus.edu/mase
Center for Regional Environmental Science and Technology | www.csus.edu/crest
Center for Small Business | http://cbaweb.cba.csus.edu/csb
Center for STEM (Science, Technology, Engineering and Mathematics) Excellence | www.csus.edu/stem
Institute for Business Research and Consulting | www.cba.csus.edu/ibrc/IBRC.html
Institute for Higher Education Leadership and Policy | www.csus.edu/ihe
Institute for Social Research | www.csus.edu/isr
North Central Information Center | www.csus.edu/hist/centers/ncic
Office of Water Programs | www.owp.csus.edu

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