Sponsored Research and Contract Activity
2010 and 2011 Years in Review
Dear friends of Sacramento State:

Great teachers inspire the emerging scholars that come to our campus by the river every day. Our faculty compete for and win grants and contracts that bring external funds to benefit students, academic programs, research facilities, and equipment, all of which advance the intellectual vibrancy of Sacramento State and our regional community in astounding ways. The scholarship and research of the faculty connect their classroom, laboratory, library and field experiences while expanding student learning opportunities.

Our centers and institutes work with policymakers, advanced technology firms, state public service agencies, and a range of private and federal funders who find an agile, productive, and insightful group of faculty partners. The skills and expertise developed on our campus create graduates who are ready to contribute to a 21st century workforce and who, through a variety of research experiences, have learned the power of focus and discipline through collaboration and practice.

With a wealth of creativity and a diversity of ideas, Sacramento State is helping to build the California of the future. These pages detail an array of projects and initiatives undertaken by Sacramento State faculty, staff and students over the last two years. I invite you to learn more, and I encourage you to contact our office, or the faculty members themselves, for more information.

Sincerely,

David P. Earwicker
Assistant Vice President
Research Administration and Contract Administration
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Research Administration and Contract Administration is a partnership of the University’s Division of Academic Affairs and University Enterprises, Inc. (UEI), the primary campus auxiliary. Together, our research administration professionals provide a broad range of services to faculty. Academic Affairs staff provide research and proposal development support, and UEI staff administer awards on behalf of the University. The Academic Affairs portion of the unit also monitors research integrity and institutional compliance as well as intellectual property, technology transfer and commercialization. In addition, it oversees the campus Institutional Review Board and the Institutional Animal Care and Use Committee.
### Proposal Submissions

<table>
<thead>
<tr>
<th></th>
<th>2009-2010</th>
<th>2010-2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total proposed project costs</td>
<td>$61,991,106</td>
<td>$50,509,059</td>
</tr>
<tr>
<td>Proposed direct costs</td>
<td>$55,500,032</td>
<td>$43,322,512</td>
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<tr>
<td>Proposed facilities and administrative (F&amp;A) costs</td>
<td>$6,491,074</td>
<td>$7,186,547</td>
</tr>
<tr>
<td>Number of proposal submissions</td>
<td>184</td>
<td>201</td>
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### Awards Received

<table>
<thead>
<tr>
<th></th>
<th>2009-2010</th>
<th>2010-2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total funds awarded</td>
<td>$25,080,350</td>
<td>$24,999,873</td>
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<tr>
<td>Awarded direct project costs</td>
<td>$21,917,781</td>
<td>$22,347,014</td>
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<tr>
<td>Awarded facilities and administrative (F&amp;A) costs</td>
<td>$3,162,570</td>
<td>$2,652,859</td>
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<tr>
<td>Average F&amp;A recovery rate</td>
<td>14.43%</td>
<td>11.87%</td>
</tr>
<tr>
<td>Number of awards received</td>
<td>130</td>
<td>137</td>
</tr>
<tr>
<td>Number of sponsors awarding grants and contracts</td>
<td>80</td>
<td>68</td>
</tr>
<tr>
<td>Number of faculty/staff receiving awards</td>
<td>75</td>
<td>66</td>
</tr>
</tbody>
</table>

**Note:** The above figures exclude contracts administered by UEI for Student Employment Services (approx. $20 million) and a cooperative agreement with the U.S. Geological Survey (approx. $2.2 million).

**Note:** Columns may not total precisely due to rounding and offsets.
**Research Grant and Contract Expenditures**

<table>
<thead>
<tr>
<th></th>
<th>2009-2010</th>
<th>2010-2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total project expenditures</td>
<td>$20,291,539</td>
<td>$22,471,895</td>
</tr>
<tr>
<td>Direct project expenditures</td>
<td>$18,039,404</td>
<td>$19,884,914</td>
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<tr>
<td>Recovered F&amp;A costs</td>
<td>$2,252,134</td>
<td>$2,586,981</td>
</tr>
<tr>
<td>Average F&amp;A recovery rate</td>
<td>12.5%</td>
<td>13%</td>
</tr>
</tbody>
</table>

**Funds Awarded By College/Unit**

<table>
<thead>
<tr>
<th>College/Unit</th>
<th>2009-2010</th>
<th>2010-2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Affairs &amp; Library*</td>
<td>$3,824,118</td>
<td>$2,857,015</td>
</tr>
<tr>
<td>Arts &amp; Letters</td>
<td>$547,125</td>
<td>$151,766</td>
</tr>
<tr>
<td>Business Administration</td>
<td>$209,000</td>
<td>$186,178</td>
</tr>
<tr>
<td>Continuing Education</td>
<td>$210,950</td>
<td>n/a</td>
</tr>
<tr>
<td>Education</td>
<td>$1,757,236</td>
<td>$1,292,549</td>
</tr>
<tr>
<td>Engineering &amp; Computer Science</td>
<td>$6,831,215</td>
<td>$5,673,908</td>
</tr>
<tr>
<td>Health &amp; Human Services</td>
<td>$3,170,534</td>
<td>$3,015,870</td>
</tr>
<tr>
<td>Natural Sciences &amp; Mathematics</td>
<td>$3,485,940</td>
<td>$2,008,217</td>
</tr>
<tr>
<td>Social Sciences &amp; Interdisciplinary Studies</td>
<td>$5,042,232</td>
<td>$5,084,436</td>
</tr>
<tr>
<td>Other**</td>
<td>$2,000</td>
<td>$4,729,934</td>
</tr>
<tr>
<td><strong>Total Awards Received:</strong></td>
<td><strong>$25,080,350</strong></td>
<td><strong>$24,999,873</strong></td>
</tr>
</tbody>
</table>

*Academic Affairs & Library* includes 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.

**Included is $4.7 million in US Department of Energy funding for enhancement of the campus Smart Grid infrastructure.**
Sponsored Research Cost Recovery

Facilities and Administrative (F&A) Costs

F&A (indirect) cost rates are negotiated every three to five 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 administration, and that a portion of the costs of that infrastructure must be included in the overall project cost. Sacramento State’s current F&A rate is 38% of Modified Total Direct Costs (MTDC); the rate is applied in all instances except when the sponsor specifically mandates a lower rate or the nature of the project expense excludes it from the F&A calculation. Due to these exclusions and limitations, our effective recovery rate in 2009-10 was 12.5% and 13% in 2010-11.

Allocation of F&A Recovery Across Campus*

<table>
<thead>
<tr>
<th></th>
<th>2009-2010</th>
<th>2010-2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Administration (UEI Post-Award Office) Costs**</td>
<td>$1,276,000</td>
<td>$1,460,000</td>
</tr>
<tr>
<td>Support to Centers and Institutes</td>
<td>$490,000</td>
<td>$643,000</td>
</tr>
<tr>
<td>Research Administration (Pre-Award Office Costs)**</td>
<td>$85,000</td>
<td>$64,000</td>
</tr>
<tr>
<td>Research Incentive Funds to Colleges</td>
<td>$150,000</td>
<td>$190,000</td>
</tr>
<tr>
<td>Faculty Research Support</td>
<td>$112,000</td>
<td>$93,000</td>
</tr>
<tr>
<td>RCA Program Support</td>
<td>$69,000</td>
<td>$110,000</td>
</tr>
<tr>
<td>Campus Research and Development Support</td>
<td>$70,000</td>
<td>$26,000</td>
</tr>
<tr>
<td>Total</td>
<td>$2,252,000</td>
<td>$2,586,000</td>
</tr>
<tr>
<td>Average F&amp;A recovery rate</td>
<td>12.5%</td>
<td>13.0%</td>
</tr>
</tbody>
</table>

*Figures rounded due to cost pooling.

**Academic Affairs and UEI provide additional operational support for the University’s research enterprise.
Sacramento State houses a number of centers and institutes (Centers) that are important contributors to applied research, scholarship, public service, student-centered programming, and the provision of specialized training.

These Centers bring together faculty and staff with similar interests to work on compelling projects, problems and research best addressed through a more focused, formalized structure. Centers serve as catalysts for innovation, research development and programmatic outreach by groups of faculty and through interdisciplinary collaborations. Centers may serve any or all of the following purposes:

- Expand the programmatic capacities of a college or the University;
- Provide for and coordinate research-related and other public service programs;
- Enhance and expand the conduct of faculty research and scholarship;
- Enhance the University’s ability to obtain external funding in support of its mission.

**Academic Technology and Creative Services (ATCS)**

ATCS, a unit of Academic Affairs, provides creative and technical multimedia production services in support of the University and the wellbeing of all Californians.

With funding from Golden State Donor Services, ATCS teamed up with Debra Brady in the School of Nursing to produce an organ donor training video for first responders. The video, which trains first responders to keep the possibility of organ donation alive, is distributed nationally and is used at local hospitals. The video is also part of a curriculum of continuing education units for first responders.

In conjunction with Francie Dillon in the College of Education and with support from First 5 of El Dorado County, ATCS also recently developed and produced a program to guide parents, caregivers and daycare providers with basic techniques for reading to children, ages 0 to 6. For more on ATCS, visit [csus.edu/atcs](http://csus.edu/atcs).

**Archaeological Research Center (ARC)**

ARC recently reinstituted its long-term research at the Marine Corps Air Ground Combat Center, Twentynine Palms. Situated in the southern Mojave Desert just north of Joshua Tree National Park, the project involves test excavations at 77 prehistoric sites to determine their research values and potential eligibility for the National Register of Historic Places. Sites are scattered across numerous sections of the installation and include residential camps, small lithic scatters, and extensive quarrying locations where early peoples acquired stone for tool manufacture. Occupations in the area date from the early Holocene (pre-7500 BP) through the late...
prehistoric period and are characterized by diverse artifact inventories, burned rock concentrations, and clusters of stoneworking debris that relate to discrete behavioral episodes. Results of this work will be integrated with previous studies to develop a history of regional land-use that spans the Holocene epoch. For more on ARC, visit csus.edu/arc.

California Smart Grid Center
Housed in the College of Engineering and Computer Science (ECS), the California Smart Grid Center explores new technologies being applied to modernize the nation’s power grid. ECS has earned recognition from the California Energy Commission for its Power Engineering Program (the largest and most comprehensive in California) and its status as a US Department of Homeland Security and National Security Agency (NSA) Center of Excellence for Information Assurance and Security (cybersecurity). The Center performs applied research on an array of emerging smart grid technologies and develops practical field solutions for large-scale integration of smart grid products. The Center provides an unbiased proving ground where utilities, industry and the public sector work together to impact power system reliability and efficiency, consumer choice, energy security, and economic development. For more, visit www.ecs.csus.edu/CASmartGrid/index.php.

Institute for Higher Education Leadership and Policy (IHELP)
With funding from the James Irvine Foundation, IHELP conducted an exploratory study on the Career Technical Education (CTE) mission of California’s community colleges. Patterns of student enrollment and progress in four high-wage, high-need career pathways were used as a basis for exploring the CTE mission and its role in the college completion agenda. The study found that the potential of CTE to help meet the state’s completion, workforce, and equity goals is not fully realized due to a lack of priority on awarding technical certificates and degrees and an absence of clear pathways for students to follow in pursuing those credentials. Recommendations for strengthening CTE include reexamining the structure and function of occupationally-oriented associate degrees; offering fewer, more consistent CTE programs that meet regional needs; and having students formally declare a program of study, with colleges ensuring that students have access to the classes they need for those programs. For more on IHELP and this report, visit csus.edu/ihelp.

Institute for Social Research (ISR)
In 2009, the ISR was contracted by the Center for Strategic Economic Research to conduct a survey of over 2,000 households in the Sacramento region regarding charitable giving behaviors. This survey was part of the Greater Sacramento Generosity Project commissioned by the Sacramento Region Community Foundation and the Nonprofit Resource Center. The study found that 62 percent of households polled made monetary donations of more than $25 to charitable organizations and each donated an average of $1,511. National findings for 2006—the most recent available—reflected higher levels of giving: 66 percent of US households made donations and gave an average of $2,247. Because the national figures were derived from data taken before the recession, it is impossible to determine how much of the disparity is due to real differences...
between the Sacramento region and the general US population and how much is due to economic changes taking place.

Among other topics, the survey also questioned respondents about their donations during 2009 to 11 different types of charitable organizations. Results indicated the largest share of donations from Sacramento households went to religious organizations. In general, giving priorities across racial and ethnic groups were very similar. Donating to religious organizations was a top priority for African American respondents, while Hispanics and Whites gave higher priority to organizations that help people in need of food, shelter, and other basic necessities. White respondents also placed more emphasis on donations to organizations supporting environmental preservation. For more, visit csus.edu/isr/.

**Office of Water Programs (OWP)**

When planning a construction project, a great deal of complex information is required to protect the environment from polluted stormwater runoff and to meet regulatory requirements. To aid designers, OWP has created the Water Quality Planning Tool, which uses a web browser to interact with large maps and datasets in an intuitive and easy-to-learn way. This tool combines Google Maps, GIS layers, and databases to create a website that can automatically create maps, tables, and graphs of watersheds, impaired water bodies, rainfall data, soil types, and more. The tool was created for Caltrans but can be used by anyone involved with a construction project or individuals looking for information on watersheds For more, visit www.owp.csus.edu/research/software-tools.php.

**New Horizons in Science and Math Education and Research**

**College of Natural Sciences and Mathematics**

**Research Lab Improvements**

The College of Natural Sciences and Mathematics (NSM) has built a regional resource center for education in the Science, Technology, Engineering and Mathematics (STEM) fields. This has been accomplished in part with federal funding for equipment and laboratory renovation.

The National Science Foundation (NSF) awarded chemistry professor Tom Savage $755,000 in American Recovery and Reinvestment Act (ARRA) funds to expand and modernize the Center for Interdisciplinary Molecular Biology Education, Research and Advancement (CIMERA) facility which supports the research programs of 16 faculty members. With this funding a modern cell analysis laboratory and a bacterial cell culture laboratory will be created, a mammalian cell culture laboratory will be expanded, and a molecular biology laboratory will be modernized.

With $655,125 in ARRA funding from the NSF Major Research Instrumentation program, Chemistry Professor Katherine

“Science is more than a body of knowledge – it is something we 'do'. With the help of external funds, Sac 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
McReynolds and colleagues Cynthia Kellen-Yuen, Claudia Lucero, James Miranda and John Spence were able to acquire a 500 MHz Nuclear Magnetic Resonance (NMR) spectrometer and an autosampler and system upgrade for an existing 300 MHz spectrometer. NMR spectroscopy is one of the most powerful tools available to chemists for the elucidation of the structure of molecules. This instrumentation will support faculty research and be used in the teaching and training of a diverse group of undergraduate and graduate students.

In addition, biological sciences professor Tom Landerholm received $350,000 from the US Department of Education to purchase new equipment and upgrade existing equipment to create a new advanced cell analysis laboratory. This lab, housed within CIMERA, will be used for faculty research and to teach students critical skills for basic and applied research and the biotechnology industry.

**Regenerative Medicine**

NSM, in collaboration with the UC Davis Stem Cell program, is working to strengthen the pipeline of masters-level scientific and laboratory personnel in stem cell research.

With the aid of a $1.3 million grant from the California Institute for Regenerative Medicine, a new comprehensive master’s degree program in applied bioscience has been established. The effort, headed by Professor Thomas Peavy along with Dean Jill Trainer and Associate Dean Laurel Heffernan, is focused on preparing graduates for careers as stem cell professionals.

In the fall of 2009, the first cohort of 10 students began the five-semester program, which includes a seven-week summer/fall internship session. As interns, they worked with mentors as part of disease teams that brought students and research scientists together with clinicians to work toward cellular therapy trials. Visit csus.edu/nsm.

**Collaboration in Atmospheric Chemistry**

An ongoing interest in understanding the interactions between plants and the atmosphere was the catalyst for a collaboration between Chemistry Professor Brad Baker and Mark Potosnak from DePaul University on a NSF grant to study the impact of biogenic volatile organic compound (BVOC) emissions on atmospheric chemistry and the effects of climate change on arctic BVOC emissions. As part of this project, an undergraduate student from Sacramento State and a graduate student from DePaul University traveled to the Toolik Field Station in Alaska to assist in conducting emission measurements.

**Biostats and Cancer Education**

With funding from the National Institutes of Health, Mathematics and Statistics Professor Rafael Diaz is collaborating with and advising the UC Davis Center for Biophotonics Science and Technology’s Interdisciplinary Science Education Team on the selection of statistical topics, datasets and software that will be used for web-based teaching modules. The aim of the project is to utilize health and clinical trial education databases to create and disseminate scenarios and problem sets that will engage middle and high school students with scientific research design and analysis, while also informing them about cancer science and health disparities research.

**Mapping and Analysis**

The US Geological Survey funded Geology Professor Brian Hausback and graduate student Julie Smith to perform detailed mapping and analysis of the Soldier Meadow Tuff (SMT), a rock type that is widely found near the High Rock Caldera (HRC) in Northwestern Nevada. The goal of the study is to decipher the origin and eruptive history of the SMT and the HRC.
Academic Affairs

Overcoming Barriers

Under the direction of Melissa Repa, Sacramento State’s Office of Services to Students with Disabilities recently received $1.38 million in funding over five years from the US Education Department TRIO Student Support Services (SSS) program. Sacramento State has been awarded SSS funding since 1974, and it has become a critical program component for the retention and graduation of students with disabilities, including those from low-income backgrounds. The SSS funding provides academic support services, advising coordination, and supplemental instruction each year to approximately 150 students with disabilities. For more, visit csus.edu/sswd/.

College of Continuing Education

Training Dislocated Workers

The Sacramento Employment and Training Agency awarded the College of Continuing Education $210,950 in federal Recovery Act funds to deliver training to 53 dislocated workers in sustainable facilities management training. The seven-week program covered over 140 hours of the basic elements of sustainable facilities management. Course topics, all with a focus on sustainability, included real estate and lease management; space planning and utilization; standards and framework for operational efficiencies; planning, designing and constructing a green building; building maintenance and repair; and building operations and energy management. For more, visit www.cce.csus.edu/.

Student Employment Services Program

The University Enterprises, Inc. (UEI) Student Employment Services (SES) program provides college students in California with opportunities to work in their field of study and apply college theory in a practical work environment. Numerous state agencies and businesses contract with UEI to offer these experiential student learning opportunities and have access to an innovative and dynamic labor pool with distinct skill sets. Through these agreements SES handles the student recruitment and provides human resources expertise, payroll management and contract administration services.

In addition to providing opportunities to Sacramento State students, SES also collaborates with partner colleges and universities throughout the state on opportunities for students from their institutions of higher education.

Over 1,600 students are employed through the program each year with many securing full-time employment after graduation.

The total volume of contract activity through SES was $20 million for 2009–10 and $23.8 million for 2010-11. SES is fortunate to work with a group of state agencies whose commitment to workforce development and higher education is unparalleled, including:

» California Air Resources Board
» California Department of Corrections and Rehabilitation
» California Department of Education
» California Department of Motor Vehicles
» California Department of Public Health
» California Energy Commission
» California Office of Statewide Health Planning and Development
» CalPERS
» California Secretary of State
» CalSTRS

For more on SES, visit www.enterprises.csus.edu/tes or call (916) 278-4994.
College of Arts and Letters

Teaching American History

The Departments of History and Teacher Education continue their partnerships with local school districts to provide professional development for K-12 history teachers. Currently, faculty direct two federally-funded Teaching American History grants. Chloe Burke, professor of History, directs two programs for the Elk Grove Unified School District, A Study of Liberty and Rights: Talking History, a lecture and book study series, and Mastering History, a specialized master of arts in American history. Teacher Education professor Mimi Coughlin, along with history professors Burke and Erika Gasser, directs Our Dynamic Nation, a partnership with the Placer County Office of Education. The grant provides educators with study programs in New York City, Washington, DC and California’s Eastern Sierra. This past summer the program provided the opportunity for teachers to visit San Francisco to study American history with “A View from the West”.

Stormwater Pollution

Protecting our creeks and rivers from polluted urban stormwater runoff is the primary focus of Sacramento County’s Stormwater Outreach Program. Communications Studies Professor Val Smith is assisting this effort by conducting surveys on behalf of the County to gather data on behaviors affecting stormwater pollution and the demographic variables that influence them. The survey results will be used to adapt and target messages to the public about urban runoff pollution and to encourage participation in pollution prevention.

String Music Education

Directed by Andrew Luchansky, professor of Cello and Chamber Music, the Sacramento State String Project is a multifaceted music education program that offers instrumental instruction to underserved children, mostly third to eighth graders, of the Sacramento region. The String Project also functions as a model of service learning by providing valuable hands-on teaching experiences for Sacramento State music majors. University students are trained in instructing children in the violin, viola and cello by the internationally renowned master teacher trainer Judy Bossuat. Funding for the String Project is provided in part from grants from the Teichert Foundation and the National String Project Consortium. For more, visit csus.edu/stringproject.

“The College of Arts and Letters blends disciplines from fine and creative arts with disciplines focused on self discovery and the human condition. We work to equip our students and community with ways of engaging one another, understanding ourselves, and appreciating the potential of the world in which we live.”

—Edward Inch
Dean, College of Arts and Letters
College of Business Administration

Developmental Services
Business Administration Professors Amy Mickel and Stanley Taylor have undertaken a three-year project for the California Department of Developmental Services (DDS). Their primary responsibilities involve generating forecasts for the agency’s $4.6 billion budget twice a year. This work impacts more than 246,000 Californians with developmental disabilities.

Entrepreneurial Hub
Under the direction of Dean Sanjay Varshney and Associate Professor Seung Bach, the College of Business Administration recently established a Center for Entrepreneurship to nurture innovative business ideas and capitalize on potential entrepreneurial opportunities on campus and in the community. The Center provides entrepreneurs with the skills and resources needed to launch new ventures, solutions to entrepreneurial problems, and technical training to grow the enterprise. In addition, the Center aspires to create a new venture incubator for its expanded stakeholder groups, such as faculty, staff, students, student organizations, alumni, employers, and local entrepreneurs.

Sacramento’s Economic Forecast
A major initiative of the College’s Institute for Business Research and Consulting is the annual Sacramento Business Review - a comprehensive analysis of the regional economy. With 10 of Sacramento’s top financial analysts and researchers combining their skills and talent, the Sacramento Business Review has become a source of independent thinking, insights, and research into emerging trends in Sacramento’s economy. For more, visit www.cba.csus.edu.

“As one of approximately 500 business schools worldwide accredited by AACSB – the premier accrediting body for business schools – we maintain rigorous standards for scholarship and research that exceed CSU expectations. In addition, our faculty provide valuable practitioner solutions and consulting services through the Center for Small Business and the Institute for Business Research and Consulting for Sacramento’s private sector and public sector business problems.”

—Sanjay Varshney
Dean, College of Business Administration
College of Education

Multiple Pathways Project
The Department of Teacher Education, in partnership with San Diego State University’s School of Teacher Education, received funding from the James Irvine Foundation to prepare prospective secondary teachers to work in Linked Learning pathways. Professor Stephanie Biagetti is coordinating the $90,000 grant with additional participation from professors/instructors Margarita Berta-Avila, Chia-Jung Chung, Janet Hecsh, Jennifer Porter, and Deidre Sessoms. Linked Learning is an innovative approach to secondary schooling in which students are simultaneously prepared for college and career within theme-based curricular programs based on California’s 15 major industries. The project infuses Linked Learning concepts and themes into core courses for one cohort in the single subject teacher preparation program. The coursework is coupled with strategic placement of the student teachers in Linked Learning pathways in the Sacramento City Unified School District so candidates can incorporate their classroom knowledge into their teaching.

Project Uplifted
The US Department of Education awarded Special Education, Rehabilitation, School Psychology and Deaf Studies Professors Kathy Gee and Jean Gonsier-Gerdin funds for scholarships to support students who are preparing to be special education teachers. These scholars are specifically working toward their California Specialist Credential in Moderate/Severe Disabilities, which prepares teachers to work with children ages 5-21 with the most significant cognitive, sensory, and multiple disabilities, including those with autism, deaf-blindness, and similar challenges. Project Uplifted has funded 39 scholars since its inception three years ago.

Science, Math, Assessment, and Learner Development
With funding from the California Postsecondary Education Commission, Professor of Bilingual and Multicultural Education Pia Wong and colleagues Judi Kusnick, Professor of Geology, and Deb Stetson, Project Director of the CSUS Math Project, are working in partnership with administrators and math, science and special education teachers at Sacramento area middle schools. They are working to improve teacher content knowledge and pedagogical practices, with an emphasis on inquiry-based learning and the strategic use of assessment in improving instruction, to increase student learning in mathematics and science. The project also establishes Professional Learning Communities to improve collaboration at each school site.

“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 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

Reimagining Cryptography
With funding from the National Science Foundation, Computer Science Professor Ted Krovetz is collaborating with UC Davis professor Phillip Rogaway and UC San Diego professor Mihir Bellare to explore ways of correcting suboptimal viewpoints in cryptography that have developed over time. Krovetz is focusing on encrypting and authenticating data in an integrated fashion, reducing errors and improving performance over traditional methods that do each separately.

Mentoring for Computer Science and Math Achievement
The Department of Computer Science and the College of Education, in partnership with Mathematics Engineering Science Achievement (MESA) and local K-12 schools, received funding from the National Science Foundation to develop and test an innovative computer science curriculum. Professors Kimberly Gordon-Biddle, Scott Gordon and MESA Center Director Jean Crowder are collaborating on the $740,489 grant involving educational computer game development by two separate cohorts of local underrepresented high school students, with mentoring by Sacramento State students. The project uses existing MESA elementary, middle and high school partners for developing and testing the delivery of the curriculum, with the goal of improving motivation and academic preparedness at multiple levels of the STEM pipeline.

Federal Cyber Service: Scholarship for Service
Professor of Computer Science Behnam Arad received funding from the National Science Foundation to provide scholarships to 11 undergraduate and four graduate students enrolled in computer science or computer engineering degree programs at Sacramento State. In addition to their degree program, students pursue and earn certificates in information assurance and security. The project recruits students from underrepresented groups and provides them with academic support to foster their success.

Construction Management
Support from the Construction Employers’ Association enabled Sacramento State’s Construction Management program to develop new instructional DVDs and tutorials for use in the classroom. The digital materials include narrated tours through sites and commentary on a variety of construction operations. Their availability has cut the need for costly site visits and allows the students to observe and retain more of the experience given the repeated viewing options of DVDs.

“Energy efficiency and clean energy have become major focus areas for our education and research programs at Sacramento State.”
—Emir José Macari
Dean, College of Engineering and Computer Science
College of Health and Human Services

Simulation Lab for Nursing Students
Sacramento State’s efforts to help meet California’s urgent need for highly skilled registered nurses got a boost from a $500,000 grant from the Frank M. and Gertrude R. Doyle Foundation. The funds, along with a match from the University Foundation at Sacramento State, were used to equip and furnish clinical simulation labs with state-of-the-art human patient simulators in the School of Nursing’s new facilities in Folsom Hall. The simulators are powerful learning tools that give students experience working with patients in a range of critical conditions. For more, visit csus.edu/HHS/NRS/.

Peac Education in Nigeria
Conducting alternative dispute resolution and peace education programs in Africa has been a focus of Ernest Uwazie, Professor of Criminal Justice and executive director of the Center for African Peace and Conflict Resolution for more than 21 years. Through a project funded by the JAMS Foundation, Uwazie recently led an initiative in the Nigerian state of Imo, which has experienced high rates of youth restiveness and increasing violence in recent years. Through the project, a peace education curriculum was developed, a training DVD was produced, and peace education clubs were established in 30 secondary schools. Preliminary findings indicate that following the introduction of the peace clubs, there has been a reduction in the number of acts of school violence and gender bias and an increase in school attendance and critical communication, problem solving, and leadership skills. For more, visit csus.edu/org/capcr.

Increasing Research Capacities
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, a research fellows program has been established to help College of Health and Human Services faculty collect pilot data to support future proposal submissions to federal health research agencies. Several faculty-led pilot projects were recently funded including:

» A study undertaken by professor Michelle Dang in Nursing to examine social ties between natural mentors and homeless and runaway youth to determine if relationships with nonparental adults influence health practices and risky sexual behaviors of a marginalized, adolescent and young adult population.

» Research conducted by Nursing Professor Jan Sampson on the validity and reliability of the self-report anxiety scale used to assess anxiety in children who are facing surgery.

» The collection of data by Kinesiology and Health Science Professor David Mandeville to test the hypothesis that women with knee osteoarthritis will have decreased urinary estradiol metabolite...
concentration and increased knee loading compared to healthy women.

» An investigation by professor Ed Barakatt in Physical Therapy to assess the value of educating physical therapists in an evidence-based physical therapy treatment curriculum for patients with lower back pain.

College of Social Sciences and Interdisciplinary Studies

Spatial Orientation Research

Sacramento State has received a three-year grant from the National Institute of Neurological Disorders and Stroke to enhance understanding of the brain circuitry that allows accurate spatial orientation. This study, headed by Psychology Professor Jeff Calton, represents a novel approach to understanding the nervous system processes that allow an individual to maintain spatial orientation when entering a new environment, and how these neural pathways change as a result of experience.

Globalizing Korean Food

Seunghee Wie, professor of Family and Consumer Sciences, was funded by the Korea Food Research Institute to study U.S. consumer preferences for Korean dishes such as bibimbap and japchae. The study involved identification of taster groups, preparation of questionnaires, presentation of food samples using standardized recipes for bibimbap and japchae, and measurement of plate waste to determine acceptance levels by consumers. The results of the taste tests will be used to develop a strategy for marketing these products in the United States.

Testing Financial and Environmental Governance Institutions

Professor of Economics Jonathan Kaplan is working in collaboration with the UC Davis Center for Watershed Sciences on evaluating alternative solicitation mechanisms for funding a water conveyance facility for the State of California. The mechanisms vary by governance institutions for allocating the water, and the related pricing and sizing schemes. Data for statistically comparing the mechanisms are generated in a controlled laboratory experiment with human subjects who face real financial incentives.

Native American Graves and Repatriation

Anthropology professor Jacob Fisher and staff at the Archaeological Curation Facility are currently working on the Zallio Project, funded through the National Park Service. The goal is to repatriate human remains and funerary objects collected in the 1920-30s by Anthony Zallio, a Sacramento Junior College professor and amateur archaeologist. This project also represents a step toward university compliance with the Native American Graves Protection and Repatriation Act by returning the remains back to native Californian descendents.

“Outside funding for research by our faculty is essential and serves as a testimony to the importance of their work. Grant funding enables engagement in high-quality research, often provides learning opportunities for students, and facilitates campus connections with community needs.”

— Charles W. Gossett
Dean, College of Social Sciences and Interdisciplinary Studies
Grant and Contract Awards Received
July 1, 2009 through June 30, 2010

**Academic Affairs**

**Academic Technology and Creative Services**

Michaeline Veden

California Dept. of Alcoholic Beverage Control.......................................$15,000
Underage PSA for Alcoholic Beverage Control
California Dept. of Boating and Waterways..............................................$400,000
MOU #1
California Dept. of Consumer Affairs......................................................$64,864
BAR Certified Instructor Train-the-Trainer Video - Task Order #5
California Dept. of Consumer Affairs......................................................$59,201
BAR Basic Clean Air Car Course Video - Task Order #6
California Dept. of Consumer Affairs......................................................$52,276
Citation Level I and II Training - Task Order #3
California Dept. of Consumer Affairs......................................................$21,567
Write It Right - Task Order #7
California Dept. of Consumer Affairs......................................................$18,311
Low Pressure Fuel Evaporation Test Inspection - Task Order #4
California Dept. of Consumer Affairs......................................................$13,365
Visible Smoke Inspection Procedures Video - Task Order #2

California Dept. of General Services......................................................$100,000
WIC Photo Library and Nutrition Education Materials
California Dept. of Parks and Recreation.................................................$15,600
Angel Island Digital Scrapbook
California School Boards Association......................................................$9,000
Back to School Webcast on September 24, 2009
California School Boards Association......................................................$9,000
Forecast Webcast on January 14, 2010
Center for California Studies ..........$3,000
Newsletter and Legischool Postcard
El Dorado County .............................................$10,000
High 5 Read Aloud Techniques Training DVD
School Services of California...........$5,500
Webcast on July 27, 2009

**Center for Teaching and Learning**

Kimo Ah Yun

California Dept. of Parks and Recreation.................................................$10,000
Data Analysis and Training

Sonoma State University.........................$9,720
Ensuring Access through Collaboration and Technology: Partnerships, Technology and Dissemination (EnACT PTD) Project

**College Assistance Migrant Program (CAMP)**

Viridiana Diaz

Intel Foundation.......................... $19,814
Promotion of Migrant Students in Science Education
San Joaquin County .......................$99,514
College Assistance Migrant Program (CAMP)

Marcellene Watson-Derbigny

US Dept. of Education....................... $422,975
College Assistance Migrant Program (CAMP) – Year 2

**Graduate Studies**

Chevelle Newsome

US Dept. of Education....................... $219,996
California State University, Sacramento McNair Scholars Program – Year 3

**Guardian Scholars**

Joy Salvetti

Stuart Foundation.........................$175,000
Sacramento Region Guardian Scholars Consortium

**LSAMP**

Joseph Sheley/Juanita Barrena

National Science Foundation...........$800,000
CSU-LSAMP Senior Alliance – Year 2
Christopher Castaneda
California Dept. of Parks and Recreation.......................................................$8,500
North Central Information Center
California Dept. of Transportation.........................................................$10,000
North Central Information Center, Record Searches for District 3
California Dept. of Water Resources.........................................................$1,000
North Central Information Center, Record Searches – Year 2
Charles Postel
Placer County.........................................................................................$82,436
Teaching American History Grant - Year 3

College of Business Administration
Stanley Taylor
California Dept. of Developmental Services.................................................$112,500
Review of Current DDS Forecasting Methodologies
Dennis Tootelian
California Dept. of Boating and Waterways...............................................$78,500
San Joaquin Life Jacket Wear Rate Study MOU #3
California Dept. of Conservation.........................................................$18,000
Analyzing Improved Beverage Container Payments

College of Continuing Education
Alice Tom
Sacramento Employment and Training Agency...........................................$210,950
ARRA–Training in Critical Occupational Clusters

Music
Stephen Blumberg
National Endowment for the Arts.........................................................$10,000
2010 Festival of New American Music
Sacramento County.................................................................................$9,000
Cultural Arts Awards Program: 33rd Annual Festival of New American Music

Andrew Luchansky
Teichert Foundation...............................................................................$5,000
Sacramento State String Project Support
National String Project Consortium.........................................................$1,000
Sacramento State String Project Support

College of Education
Bilingual/Multicultural Education
Maria Mejorado
US Dept. of Education...........................................................................$464,586
Sacramento State High School Equivalency Program – Year 2
UC Berkeley.........................................................................................$5,000
Instituto de los Mexicanos en el Exterior (IME) Sponsored Student Scholarships
2009-10 Grants and Contracts, continued

**Nadeen Ruiz**
US Dept. of Education.................. $284,118
California Binational Teacher Education Program

**Pia Wong**
California Postsecondary Education Commission.................. $283,481
Science, Math, Assessment and Learner Development Institute (SMALDI)

**California Reading and Literature Project**

**John Shefelbine**
Sacramento City Unified School District.......................... $47,381
Small Learning Communities – Year 2
UC Regents...................................... $60,488
CA Reading and Literature Project – NCLB Funds
UC Regents................................. $21,512
CA Reading and Literature Project – State Funds

**Child Development**

**Karen Davis O’Hara**
Child Action, Inc............................... $11,336
Child Care and Early Education Result Area 10-15

**Kimberly Gordon-Biddle**
Child Action, Inc............................... $10,683
Quality Child Care Collaborative

**Lynda Stone**
UC Berkeley.................................. $23,000
UC Links Project

**Special Education**

**Bernice Bass de Martinez**
UC Regents................................. $15,000
University Centers of Excellence on Developmental Disabilities

**Guy Deaner**
US Dept. of Education.................. $150,000
Long Term Training in Rehabilitation Counseling – Year 2

**Kathleen Gee**
US Dept. of Education.................. $199,994
Project UPLIFTED – Year 2

**Teacher Education**

**Stephanie Biagetti**
San Diego State University............ $30,000
Multiple Pathways Project

**Janet Hecsh**
CSU Trustees................................. $10,000
Give Students a Compass

**Deidre Sessoms**
CSU Chico................................. $138,657
Noyce Scholarship Program
Stanford University...................... $2,000
PACT Beginning Teacher Effectiveness Study Survey

**College of Engineering and Computer Science**

**Dean’s Office**

**Emir José Macari**
California Energy Commission........ $2,000,000
Smart Grid Center

**UC Regents**........................... $31,250
Roadmap to Smart Grid Center

**Civil Engineering**

**Mikael Anderson**
Construction Employers’ Association.................. $25,000
CEA Construction Management University Grant Program
Contractors’ State Licensing Board.............................. $15,697
Construction Management Education Sponsorship Act Grant

**Benjamin Fell**
Stanford University...................... $18,006
Collapse Simulation of Multi-Story Building through Hybrid Testing

**Ralph Hwang**
California Emergency Management Agency........................ $49,500
Inundation Map Review Project

**Computer Science**

**Behnam Arad**
Intel Corporation................................. $34,676
Improvement of Computing Resources for Advanced Hardware Design and Validation

**Ted Krovetz**
UC Davis................................. $16,461
CT-IG: Reimagining Cryptography by Identifying its Culturally-Rooted Assumptions
### Electrical and Electronic Engineering

**Warren Smith**  
UC Davis........................................... $16,566  
Medical Technology Commercialization Clinic

**Suresh Vadhva**  
National Renewable Energy Lab........................ $199,767  
Smart Grid Implementation Analysis Support  
UC Regents........................................... $163,409  
Building-to-Grid Technology Evaluation and Roadmap  
UC Regents........................................... $180,000  
Practical Processes Toward Integration of Renewable Resources and Distributed Generation  
UC Regents........................................... $32,233  
Wind DR

### Mathematics Engineering Science Achievement (MESA) Center

**Jean Crowder**  
UC Regents........................................... $200,000  
Sacramento State–UC Davis MESA Center Support

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

**Madeleine Fish**  
Intel Corporation................................... $40,000  
Fast Track Math: Building the U.S. Pipeline  
National Action Council for Minorities in Engineering........................................... $45,000  
NACME Scholarships  
National Science Foundation........................ $125,000  
NSF Scholar’s Program in Engineering and Computer Science  
UC Regents........................................... $24,125  
MEP/NSF Scholarships

**Emir José Macari**  
GenCorp Foundation................................. $20,000  
MEP Academic Assistance Program

**Jaime White**  
Intel Foundation..................................... $20,000  
MHP Honors Partnership Program  
Northrop Grumman................................... $2,500  
Diverse Technical Workforce

### Office of Water Programs

**Ramzi Mahmood**  
California Dept. of Transportation............... $3,500,000  
Stormwater Monitoring - Year 3  
Kristar Enterprises, Inc............................. $55,020  
Tree Pod Filter Hydraulic and Treatment Performance Testing  
Kristar Enterprises, Inc............................. $5,815  
Tree Pod Tree Box Filter Testing  
Kristar Enterprises, Inc............................. $11,190  
Perk Test Validation

### College of Health and Human Services

#### Criminal Justice

**Ricky Gutierrez**  
Sacramento City Unified School District......................... $6,000  
Sacramento Mentoring Program–Lifeline

**Ernest Uwazie**  
JAMS Foundation................................... $50,000  
Peace Education Training and Curriculum Development in Nigeria

### Kinesiology and Health Science

**Roberto Quintana**  
El Dorado Union High School District......................... $77,280  
Independent After School Physical Education Program

**Craig Tacla**  
UC Regents........................................... $35,000  
Capital Physical Education Health Project  
UC Regents........................................... $35,000  
Capital Physical Education Health Project NCLBX Funds

### Nursing

**Dian Baker**  
UC Davis........................................... $11,500  
Subcontract with the Center for Excellence in Developmental Disabilities at the MIND Institute

**Bonnie Raingruber**  
National Institutes of Health........................ $106,919  
Developing a Biomedical and Behavioral Research Center – Year 7
### 2009-10 Grants and Contracts, continued

**Ann Stoltz**  
Frank M. Doyle Foundation .............. $495,054  
Simulators and Equipment for Folsom Hall Nursing Laboratories  
Health Resources and Services  
Administration.......................... $22,032  
Family Nurse Practitioner Traineeship  

**Recreation, Parks, and Tourism Administration**  
David Rolloff  
California Dept. of Parks and Recreation.......................... $49,950  
Trailhead Use Survey and Study Services  

**Social Work**  
Robin Carter  
Small County Emergency Risk Pool............................ $100,000  
Weekend Masters in Social Work Program  
UC Regents................................. $522,188  
Mental Health Educational Stipend Program – Year 2  

**College of Natural Sciences and Mathematics**  

**Dean’s Office**  
Laurel Heffernan  
California Institute for Regenerative Medicine.......................... $462,980  
Strengthening the Pipeline of Masters-level Scientific and Laboratory Personnel in Stem Cell Research  

**Biological Sciences**  
James Baxter  
National Science Foundation........... $999,098  
California Environmental Legacy Project – Year 1  
Thomas Landerholm  
US Dept. of Education.......................... $350,000  
Acquisition of Equipment and Technology for Science Laboratories  

**Chemistry**  
Bradly Baker  
National Science Foundation........... $36,146  
Collaborative Research: Biogenic Volatile Organic Compound Emissions from the Tundra and Arctic Atmospheric Chemistry  
Jacqueline Houston  
Simbol Mining Corp....................... $111,653  
ARRA-Recovery of Potassium from Geothermal Fluids  

**Katherine McReynolds**  
National Science Foundation........... $645,125  
ARRA-MRI: Acquisition of 500 MHz NMR Spectrometer  

**Geography**  
Matthew Schmidtlein  
Cal Poly Corporation................. $13,027  
State Multi-Hazard Mitigation Plan for 2010  

**Geology**  
Brian Hausback  
US Geological Survey............... $17,499  
Analysis of the Soldier Meadow Tuff of the High Rock Caldera, Northwestern Nevada  
Tim Horner  
City of Sacramento....................... $47,500  
Sailor Bar Gravel Assessment  
Judi Kusnick  
Elk Grove Unified School District.... $206,774  
Excellence in Science Instruction (eSci) – Year 2  
UC Regents...................... $60,822  
Inquiry and Practice in Science Education  
UC Regents...................... $15,000  
Sacramento Area Science Project at Sacramento State  

**Mathematics and Statistics**  
Rafael Diaz  
UC Davis........................... $32,477  
How Sure Are You? Science, Biostats and Cancer Education
Scott Farrand
Placer County Office of Education Subcontract
UC Los Angeles California Mathematics Project – STIR
UC Regents Sacramento State Mathematics Project – NCLB Funds
UC Regents Sacramento State Mathematics Project – State Funds

Michelle Norris
California Dept. of Managed Health Care Statistical Sample of Medical Claims

Science Educational Equity
Juanita Barrena
National Institutes of Health $206,774 Sacramento College Coalition for Future Scientists 2009/2010
National Institutes of Health $55,636 ARRA-Supplement to Sacramento College Coalition for Future Scientists

College of Social Sciences and Interdisciplinary Studies
Anthropology
Raghuraman Trichur
California Dept. of Transportation $50,977 NAGPRA Consultation – Task Order #14

Pei-Lin Yu
National Park Service $84,410 Sacramento State Legacy Collections NAGPRA Consultation Project
Sacramento Municipal Utility District $1,506 Archaeological Collections Curation

David Zeanah
Stanford University $15,677 Anthropogenic Fire, Human Foraging Strategies, and Ecosystem Dynamics in the Western Desert of Australia

Archaeological Research Center
Mark Basgall/Michael Delacorte
Bear River Tribe $24,131 Smith Creek Project
California Dept. of Transportation $590,000 Manzanar/Independence Four Lane Phase III – Task Order #2
California Dept. of Transportation $31,500 Marin-Sonoma Narrows Treatment Plan – Task Order #4
California Dept. of Transportation $30,000 Duhig Road Project III – Task Order #3
California Dept. of Transportation $15,000 Environmental Maintenance GIS/GPS Technical Support – Task Order #5
California Dept. of Transportation $5,000 GIS/GPS Services and Tasks
MWH Americas, Inc $563,796 Lake Oroville Project - Task Order #1

Center for California Studies
Donna Hoenig-Couch
Judicial Council of California $27,034 Administrative Office of the Courts Standard Agreement – Year 2

Economics
Jonathan Kaplan
UC Davis $22,509 Testing Financial and Environmental Governance Institutions

Ethnic Studies
Gregory Mark
University of Hawaii $68,619 API Youth Violence Prevention

Family and Consumer Sciences
Mical Shilts
UC Davis $21,197 Guided Goal Setting

Seunghee Wie
Korea Food Research $17,998 Study on the Quality Estimation Technology and the Market Strategy to Globalize Korean Food

Gerontology
Cheryl Osborne
California Dept. of Social Services $13,349 Gerontology Training
2009-10 Grants and Contracts, continued

Institute for Higher Education Leadership and Policy

Nancy Shulock
Campaign for College Opportunity .......... $29,813
Student Success in the Community Colleges: Variation by Region and Race/Ethnicity
Columbia University ......................... $127,592
Washington Student Achievement Initiative Assessment – Year 1
The Education Trust ............... $13,500
NASH/Education Trust Access to Success Initiative
The Education Trust .................. $6,200
NASH/Education Trust Access to Success Initiative
Higher Education Policy Institute ....... $18,000
Contract with National Center for Public Policy and Higher Education
James Irvine Foundation ............ $150,000
Milestones to Improve Outcomes for Students Seeking Career-Oriented Degrees
Jobs for the Future ............... $45,800
Time-To-Completion (TCC) Policy Audit Tool
Jobs for the Future ............... $40,000
Status of Milestone Use for Analyzing and Improving Postsecondary Student Success
National Articulation and Transfer Network .......... $1,500
Lessons from State Transfer Policies

Institute of Social Research

Ernest Cowles
California Air Resources Board .......... $28,214
Household Portable Fuel Container Survey
California Children and Families Commission .......... $135,503
First 5 Annual Report
California Dept. of Mental Health ....... $317,000
CDMH Customer Survey
California Dept. of Mental Health ....... $115,382
Review and Redesign of the DIG DMH Client Survey – Year 3
California Dept. of Motor Vehicles ....... $74,940
DUI Conviction Rate Study
California Dept. of Pesticide Regulation .......... $70,000
School Integrated Pest Management Survey
California Dept. of Social Services .......... $1,077,180
IHSS Time Utilization Impact Assessment and Continuous Improvement Project – Year 2
California Dept. of Social Services .......... $204,241
PIP Survey Project
Center for Strategic Economic Research .......... $102,000
CSER Generosity Survey
College of Continuing Education .......... $150,000
IHSS Training Academy
Sacramento County ............... $38,100
Drug Court Program – Year 2
San Francisco State University .......... $116,482
EDD One Stop Center Branding Surveys
UC Riverside ......................... $6,444
CHRS Information Center Satisfaction Survey

Public Policy and Administration

Robert Wassmer
Center for California Studies ............... $58,125
Debt Burden of California and Local Government

Psychology

Phillip Akutsu
UC Los Angeles ......................... $11,776
Culture and Mental Illness: Prevention and Treatment in Asian Americans

Jeffrey Calton
National Institutes of Health ........... $329,114
Experience Dependent Modification of the Head Direction Cell Network

Gregory Hurtz
Commission on Peace Officer Standards and Training ....................... $24,000
Basic Course Competency Project

Sociology

Mridula Udayagiri / Madeleine Fish
National Science Foundation ........... $228,622
Fast Track Math for Women

Student Affairs

Ashley Lewis
Partnership for Public Service .......... $2,000
Call to Serve Innovation Grant
Grant and Contract Awards Received
July 1, 2010 through June 30, 2011

**Academic Affairs**

**Academic Technology and Creative Services**

<table>
<thead>
<tr>
<th>Organization</th>
<th>Amount</th>
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<tbody>
<tr>
<td>California Dept. of Boating and Waterways</td>
<td>$411,000</td>
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**Academic Affairs**

**Graduate Studies**

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<th>Organization</th>
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<tr>
<td>US Dept. of Education</td>
<td>$290,305</td>
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**Public Safety**

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<td>CSU Trustees</td>
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**College of Arts and Letters**

**Foreign Languages**

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<th>Organization</th>
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<td>Merced Union High School District</td>
<td>$1,487</td>
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**Research Administration**

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<th>Organization</th>
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<td>US Fish and Wildlife Service</td>
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**Services to Students with Disabilities**

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<th>Organization</th>
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<tr>
<td>US Dept. of Education</td>
<td>$275,940</td>
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**History**

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<td>Elk Grove Unified School District</td>
<td>$26,407</td>
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**Community Engagement Center**

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<th>Organization</th>
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<tr>
<td>CSU Trustees</td>
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**College Assistance Migrant Program (CAMP)**

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<th>Organization</th>
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<td>Butte County</td>
<td>$129,871</td>
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**Community Engagement Center**

<table>
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<tr>
<td>Sacramento Municipal Utilities District</td>
<td>$4,700,000</td>
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**Academic Technology and Creative Services**

- Michaeline Veden
  - California Dept. of Boating and Waterways: $411,000

**LSAMP**

- Joseph Sheley/Juanita Barrena
  - National Science Foundation: $486,000
  - CSU-LSAMP Bridge to the Doctorate Cohort 7 - Year 2

**Research Administration**

- David Earwicker
  - US Fish and Wildlife Service: $108,000

**Services to Students with Disabilities**

- Melissa Repa
  - US Dept. of Education: $275,940

**Administration and Business Affairs**

- Ming-Tung "Mike" Lee
  - Sacramento Municipal Utilities District (US Dept. of Energy): $4,700,000

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2010-11 Grants and Contracts, continued

Christopher Castaneda
California Dept. of Water Resources..........................$1,000
North Central Information Center 2010-11 Record Searches - Year 3

Lee Simpson
California Dept. of Parks and Recreation.......................$20,167
North Central Information Center

California Dept. of Parks and Recreation..........................$13,200
North Central Information Center Historical Resources Inventory

California Dept. of Transportation..............................$7,500
North Central Information Center Record Searches

U.S. Dept. of Agriculture ...................................... $2,200
North Central Information Center Cultural Resources Record Searches

Music
Keith Bohm
Sacramento Metropolitan Arts Commission..........................$7,040
2011 Festival of New American Music

Andrew Luchansky
Heller Foundation..................................................$24,000
Sacramento State String Project Support

College of Business Administration
Hao Lin
California Dept. of Finance................................. $48,500
Fi$Cal Project

Sanjay Varshney
California Dept. of Boating and Waterways.......................$69,678
San Joaquin Delta Life Jacket Wear Rate Study

California Dept. of Parks and Recreation.......................$68,000
Park Concession Economic Feasibility and Financial Analysis

College of Education
Bilingual/Multicultural Education
Nadeen Ruiz
US Dept. of Education.........................$287,965
California Binational Teacher Education Program

Pia Wong
California Postsecondary Education Commission..................$283,933
Science, Math, Assessment and Learner Development Institute (SMALDI)

California Reading and Literature Project
John Shefelbine
Natomas Unified School District............................... $8,250
CRLP Supplemental Educational Services

Sacramento City Unified School District.......................... $49,472
Small Learning Communities Program - Year 3

Sacramento City Unified School District.......................... $15,189
CRLP Supplemental Educational Services

San Joaquin County................................. $4,575
California Reading and Literature Project

UC Regents..............................................$57,051
California Reading and Literature Project-NCLB

Woodland Joint Unified School District..............................$87,775
California Reading and Literature Project

Child Development
Lynda Stone
UC Regents..................................................$20,000
UC Links - CSUS 5th Dimension Program

Special Education
Guy Deaner
US Dept. of Education..........................$150,000
Long Term Training in Rehabilitation Counseling - Year 3

Kathleen Gee
US Dept. of Education..........................$199,063
Project UPLIFTED - Year 3

Teacher Education
Mimi Coughlin
Placer County...........................................$55,647
Teaching American History Grant

Placer County...........................................$10,189
Teaching American History Grant Supplement

College of Engineering and Computer Science
Dean’s Office
Emir José Macari
US Dept. of Energy..............................$749,992
ARRA Smart Grid Workforce Development
Civil Engineering
Mikael Anderson
Contractors’ State Licensing Board ......................................................... $11,257
Construction Management Education Support
Benjamin Fell
Stanford University ............................................................... $40,009
Collapse Simulation of Deteriorating Buildings Through Hybrid Testing - Year 2
Justin Reginato
Electri International ............................................................... $45,812
An Economic Analysis of Portability

Computer Science
Behnam Arad
National Science Foundation ........................................ $500,785
Scholarships for Service at Sacramento State
V. Scott Gordon
National Science Foundation ........................................ $226,100
Mentoring With Computer Science and Math Games

Electrical and Electronic Engineering
Fethi Belkhouche
Cisco-Silicon Valley Community ........................................ $75,000
Predictive Maintenance in Power Systems
Suresh Vadhva
University of Minnesota ........................................ $37,499
ARRA-Electric Power Sector Workforce Training Consortium

Mechanical Engineering
Jose Granda
UC San Diego ........................................ $7000
Sacramento State Outreach to Girls and Minorities for Excellency in Engineering and Computer Science

MESA Engineering and Computer Science Program (MEP)
Madeleine Fish
National Science Foundation ........................................ $125,000
NSF Scholar’s Program in Engineering and Computer Science
Emir José Macari
UC Regents ........................................ $20,750
Scholarships for ECS students

Office of Water Programs
Ramzi Mahmood
California Dept. of Transportation ........................................ $3,500,000
Stormwater Research - Year 4
Kevin Murphy
Bennett Engineering ........................................ $1,049
Clover Valley Reservoir - Design Alternative
California Stormwater Quality Association ........................................ $4,999
QSD/QSP Exam Development, Preparation and Scoring

Project Success
Emir José Macari
Intel Foundation ........................................ $25,000
Intel MHP Fellowship Program

College of Health and Human Services
Criminal Justice
Tim Croisdale
Mental Health Services Oversight and Accountability Commission ........................................ $360,232
Technical and Analytical Support
Ricky Gutierrez
Sacramento City Unified School District ........................................ $8,000
Sacramento Mentoring Program - Year 2
Miki Vohryzek-Bolden
California Dept. of Corrections and Rehabilitation ........................................ $73,500
Gang Management/Lockdown

Nursing
Bonnie Raingruber
Consumer Self Help ........................................ $23,333
Community Collaboration for Continuity of Care
### 2010-11 Grants and Contracts, continued

**National Institutes of Health** .......... $96,228  
Developing a Biomedical and Behavior Research Center - Year 8

**Recreation, Parks, and Tourism Administration**

**David Rolloff**  
California Dept. of Parks and Recreation ........................................................... $49,950  
Trailhead Use Survey and Study Services - Year 2

**Social Work**

**Robin Carter**  
Small County Emergency Risk Pool ........................................................... $85,000  
Weekend Masters in Social Work Program

**John Davis**  
Greater Sacramento Urban League ........................................................... $17,335  
Field Instruction and Program Development

**College of Natural Sciences and Mathematics**

**Dean’s Office**

**Laurel Heffernan**  
California Institute for Regenerative Medicine ........................................... $440,480  
Strengthening the Pipeline of Masters-level Scientific and Laboratory Personnel in Stem Cell Research - Year 2

**Chemistry**

**Katherine McReynolds**  
National Science Foundation ........................................ $5,000  
ARRA - Acquisition of 500 MHz NMR Spectrometer - Year 2

**Tom Savage**  
National Science Foundation ................................................................. $755,000  
ARRA – Renovation and Modernization of the Center for Interdisciplinary Molecular Education, Research and Advancement (CIMERA)

**Geology**

**Timothy Horner**  
City of Sacramento ................................................................. $54,546  
Spawning Gravel Assessment at the Upper Sunrise Site for 2010-2011

**Mathematics and Statistics**

**Scott Farrand**  
Auburn Union Educational School District ........................................... $89,598  
SUCCESS Project

Placer County ............................................................. $85,650  
Rigorous Instruction in Mathematics (RIMS)

Placer County ............................................................. $6,000  
RIMS Follow-up and Common Core

UC Regents ................................................................. $27,570  
California Mathematics Project-NCLB Funds

**MASE**

**Frank Hicks**  
Elk Grove Unified School District ........................................... $227,067  
Excellence in Science Instruction (eSCI) - Year 3

**Science Educational Equity**

**Juanita Barrena**  
National Institutes of Health ................. $206,775  
Sacramento College Coalition for Future Scientists

**Enid Gonzalez**  
California Wellness Foundation ............... $52,426  
Preparation of Pre-Health Professional Students: The Source for Diversity in Health Professions
College of Social Sciences and Interdisciplinary Studies

Anthropology
Jacob Fisher
AECOM..............................................................$79,690
Professional and Technical Curation Services
Far Western Anthropology ..................$15,186
Cataloguing of the Collection from CA-PLA-272

Archaeological Research Center
Mark Basgall/Michael Delacorte
Epsilon Systems Solutions......................$7,944
Cultural Resource Documentation and Report Writing Support, Naval Air Weapons Station
Far Western Anthropology ...............$272,445
Ruby Pipeline Project
MWH Americas, Inc..................$440,027
Oroville Cultural Resource Support and Prehistoric Site Evaluation
MWH Americas, Inc..............................$272,286
Oroville Goat Ranch Project
TEC Inc..............................................$1,164,810
Evaluation of 77 Endangered Archaeological Sites
TEC Inc..............................................$104,998
Quackenbush Eligibility Study and Lavic Lake Cleghorn Survey

Center for California Studies
Donna Hoenig-Couch
Judicial Council of California..............$19,356
Administrative Office of the Courts Standard Agreement - Year 3

Economics
Jessica Howell
UC Regents.............................................$78,458
Ready or Not? California’s Early Assessment Program and the Transition to College

Gerontology
Cheryl Osborne
California Dept. of Social Services .........................$13,349
Gerontology Training - Year 2

Institute for Higher Education Leadership and Policy
Nancy Shulock
BTW Consultants.................................$8,388
Jobs for the Future
Capitol Impact LLC..............................$17,000
Evaluation of CA Legislative Staff Education Institute
Columbia University.........................$42,400
Washington Student Achievement Initiative Assessment - Year 2
James Irvine Foundation.......................$400,000
Strengthening the CTE Mission of the CA Community Colleges through Policy Design
Western Governors University......................$100,000
Evaluation of Launch, Initial Operations, and Replicability
William & Flora Hewlett Foundation ......................$250,000
California Reform and Community Colleges - Operating Support Grant

Institute of Social Research
Ernest Cowles
California Air Resources Board...........$90,000
Lawn and Garden Equipment Telephone Survey
California Air Resources Board...........$44,182
Motorcycle Usage Telephone Survey
California Children and Families Commission........................$134,279
First 5 Annual Report
California Dept. of Social Services........................$474,776
IHSS Time Utilization Impact Assessment and Continuous Improvement Project - Year 3
California Dept. of Social Services........................$250,000
CCLD Inspection Key Indicators Project
Sacramento County..............................$58,360
Drug Court Discretionary Grant Evaluation

Psychology
Lisa Bohon
UC Davis..............................................$17,043
Targeted and Tailored Messages to Enhance Depression Care

Lawrence Meyers
California Dept. of Corrections and Rehabilitation..........................$235,266
Revision of Core Course/Hearing Standards for Adult Corrections Officers and Revision of Probation Officers Core Course
2010-11 Grants and Contracts, continued

California Dept. of Corrections and Rehabilitation $179,956
Vision Standards

Emily Wickelgren
Association of Psychological Science $4,954
Resources to Assist Faculty in Developing Consistent and Effective Student Advising

Serna Center
Nadeen Ruiz
California Dept. of Education $168,124
English Language Instruction for Indigenous Mexican Teachers

Sociology
Mridula Udayagiri
National Science Foundation $21,378
Fast Track Math for Women - Year 2

Student Affairs

Health Center
Cyndra Krogen
UC Regents $4,951
RADD Driver Coalition Program Subaward

Research Administration and Contract Administration Team

Jennifer Bale
Sponsored Research Officer

Krystal Bickford
Account Administration Associate

Ann Carlson
Contract Administration Specialist and UFSS Account Administrator

Minnie Chabot
Grant Administration Officer

David Earwicker
Assistant Vice President

Kim Fischer
Grant Administration Specialist

Susan Lockwood Flynn
Senior Contract Development Officer

Monica Kauppinen
Director, Contract and Research Administration

Truli Koski
Reception/Administrative Assistant

Billy Le
Account Administration Associate

Tina Leon
Grant Administration Specialist

Nancy Loeb
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Lise Loeffler-Welton
Sponsored Research Officer

Angela Lorenzo
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Sonya Lovine
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Veronica Nute
Assistant Director, Administration and Operations

Vicki Pearson-Rounds
Sponsored Research Officer and Scholarly Affairs Coordinator

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Associate Director, Research Administration

Brian Peterson
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Adrienne Thompson
Research Administration Coordinator
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California Smart Grid Center | www.csus.edu/CASmartGridCenter
Center for African Peace and Conflict Resolution | csus.edu/org/capcr
Center for California Studies | csus.edu/calst
Center for Collaborative Policy | csus.edu/ccp
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Center for Health and Human Services Research | www.hhs.csus.edu
Center for Information Assurance and Security | www.ecs.csus.edu/csc/iac
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Center for Philosophy and the Natural Sciences | csus.edu/cpns
Center for Small Business | http://cbaweb.cba.csus.edu/csb
Center for STEM (Science, Technology, Engineering and Mathematics) Excellence | csus.edu/stem
Cross Cultural Resource Center | edweb.csus.edu
Institute for Business Research and Consulting | www.cba.csus.edu/IBRC
Institute for Higher Education Leadership and Policy | csus.edu/ihelp
Institute for Social Research | csus.edu/isr
North Central Information Center | csus.edu/hist/centers/ncic
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