



Quarterly Listing of Grant and Contract Awards Received

For Award Dates July 1, 2012 through September 30, 2012

Arts & Letters

Principal Investigator: Chloe Burke, History

Contact Information: burkec@csus.edu, (916) 278-5631

Funding Agency: Elk Grove Unified School District, \$11,442

Project Title: *American Citizen: A Study of Liberty & Rights*

Elk Grove Unified School District's Teaching American History grant entitled *The American Citizen: A Study of Liberty and Rights* provides professional development in history for teachers, engaging participants in specific topics relating to the theme of the Constitution and American Liberty.

Principal Investigator: Patrick Ettinger, History

Contact Information: ettinger@csus.edu, (916) 278-6589

Funding Agency: California Department of Transportation, \$5,000

Project Title: *North Central Information Center (NCIC) Record Searches North Region*

The North Central Information Center (NCIC) of the Historical Resources Information System is one of twelve Information Centers affiliated with the State of California Office of Historic Preservation. NCIC serves as the official repository for archaeological and historical information for Amador, El Dorado, Nevada, Placer, Sacramento and Yuba counties and supplies historical resources information to the private and public sector. This inventory includes thousands of pre-historic and historic archaeological resources and reports, files of the Historic Resource Inventory, and documents pertaining to the National Register of Historic Places, the California Register of Historical Resources, and the California Points of Historical Interest.

Business Administration

Principal Investigator: Stanley Taylor, Business Administration

Contact Information: sataylor@csus.edu, (916) 278-5439

Funding Agency: California Department of Developmental Services, \$112,500

Project Title: *Analysis & Methodology Review of Lanterman Dev. Disabilities Services Act*

Assist the Department of Developmental Disabilities (DDS) to implement the Lanterman Developmental Disabilities Services Act. This will include reviewing methodologies and recommending sound changes; produce forecasts that will be presented to designated management staff for review and critique; provide detailed documentation and/or reports on any revised or new methodologies; and provided hands-on and written training as necessary.

Education

Principal Investigator: Deidre Sessoms, Teacher Education

Contact Information: sessoms@csus.edu, (916) 278-2804

Funding Agency: Cal Poly Corporation, \$5,625

Project Title: *STAR Fellows*

Dr. Sessoms will serve as the remote faculty liaison for participants at field sites associated with the National Oceanic and Atmospheric Administration (NOAA) for the STAR Program from June 14, 2013 to August 10, 2013.

Engineering & Computer Science

Principal Investigator: Brian Currier, Water Programs

Contact Information: bcurrier@saclink.csus.edu, (916) 278-8109

Funding Agency: EOA, Inc., \$27,369

Project Title: *Clean Watersheds for a Clean Bay*

OWP provides technical expertise and research management services for water and wastewater treatment, storm water policy, and watershed planning issues. OWP research engineers and scientists provide assessments for improving water and wastewater treatment processes; manage investigations to develop and test the most effective and economical methods for

controlling storm water quality; oversee and conduct water quality monitoring; and perform modeling, data analysis, and cost assessments.

Principal Investigator: August Smarkel, Water Programs

Contact Information: smarkel@csus.edu, (916)278-6982

Funding Agency: United States Geological Survey, \$1,739

Project Title: *BOD Testing for Pond A3W Dissolved Oxygen*

OWP provides technical expertise and research management services for water and wastewater treatment, storm water policy, and watershed planning issues. OWP research engineers and scientists provide assessments for improving water and wastewater treatment processes; manage investigations to develop and test the most effective and economical methods for controlling storm water quality; oversee and conduct water quality monitoring; and perform modeling, data analysis, and cost assessments. Under this agreement, the Office of Water Programs will provide labor and material to test samples for Biochemical Oxygen Demand according to standard procedures and agreed-upon modifications to standard procedures.

Principal Investigator: Suresh Vadhva, Smart Grid Center

Contact Information: vadhva@csus.edu, (916) 278-7944

Funding Agency: Pacific Gas & Electric, \$521,475

Project Title: *PG&E Volt VAR Project*

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. The California Smart Grid 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 a 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.

Health & Human Services

Principal Investigator: Robin Kennedy, Social Work

Contact Information: kennedyr@csus.edu, (916) 278-6943

Funding Agency: University of California, Regents, \$433,938

Project Title: *Mental Health Stipend Program*

Implements a program of financial aid for a maximum of 17 full-time, final year social work graduate students.

Principal Investigator: David Rolloff, Recreation, Parks, and Tourism

Contact Information: rolloff@csus.edu, (916) 278-5020

Funding Agency: California Department of Parks & Recreation, \$346,549

Project Title: *OHMVR Visitor Attendance Survey*

This scope of work represents a research effort between California State Parks' Off-Highway Motor Vehicle Recreation (OHMVR) Division and the Department of Recreation, Parks, and Tourism Administration (RPTA) at California State University, Sacramento. This proposal focuses on two dimensions of recreational use at the OHMVR Divisions' State Vehicular Recreation Areas (SVRAs): measurement of visitor attendance and collection of social data related to their attendance at SVRAs. This project work is aimed at satisfying management information needs as required in the legislation providing for the OHMVR Division – Senate Bill 742 Section 8352.6(b-d) and State Parks' policy directives outlined in DPR 449, Visitor Attendance Reporting. Data collected in these studies will be used for current and future management use by the OHMVR Division and will contribute to decision making associated with SVRAs. Data collected will also be directed toward determining the Fuel Tax proportion of the Off-Highway Motorized Vehicle Trust Fund.

Principal Investigator: Susan Taylor, Social Work

Contact Information: taylor@csus.edu, (916) 278-7176

Funding Agency: Sacramento County, \$100,000

Project Title: *Campus Connections 20 12/13*

The Supporting Community Connections, Campus Connections contract with Sacramento County Behavioral Health has a Prevention and Early Intervention (PEI) focus designed to augment health and wellness programming at the WELL. It encourages stigma reduction for help seeking behaviors, early intervention and suicide prevention services for vulnerable students on the Sacramento State University campus. Piloted through Counseling and Psychological Services (CAPS), the funding will be used to design two interrelated programs: a post-Masters Fellowship program and a Faculty-to-Faculty program – both enhancing staffing, programming and follow-up capabilities for bringing mental health awareness outreach and suicide prevention strategies into the lives of members of the campus community.

Natural Sciences & Mathematics

Principal Investigator: Ronald Coleman, Biological Sciences

Contact Information: rcoleman@csus.edu, (916) 278-3474

Funding Agency: The Community Foundation, \$2,420

Project Title: *Is there a tradeoff for reproduction when Salton Sea tilapia are exposed to high salinity?*

Tilapia, members of the family Cichlidae [1], are supposedly freshwater fishes, yet some species manage to survive at extraordinary high salinities (upwards of 60 grams per liter (g/l)) [2]. This is remarkable given that normal sea water is 35 g/l. Does this capability to survive come at a cost to reproductive ability? In other words, as salinity increases, are tilapia less able to reproduce successfully? This cost may be paid through reduced fecundity and/or through reduced ability of a female to properly motherbrood her young. This project will explore these questions further.

Principal Investigator: Scott Farrand, Mathematics & Statistics

Contact Information: farrand@csus.edu, (916) 278-6129

Funding Agency: UC Los Angeles, \$43,000

Project Title: *Supporting Teachers to Increase Retention (STIR)*

The Sacramento State Mathematics Project provides area teachers with opportunities to improve the quality of teaching and learning in their mathematics classrooms.

Funding Agency: Auburn Union School District, \$67,472

Project Title: *SUCCESS 2012/13 - Auburn USD*

Three year contract to fund the SUCCESS Math program for Auburn Union Elementary School District.

Principal Investigator: Enid Gonzalez, Science Educational Equity

Contact Information: etgonalez@saclink.csus.edu, (916) 278-7678

Funding Agency: National Institutes of Health, \$205,184

Project Title: *Sac College Coalition-2012/13*

This project will establish new collaborations between local University of California and California State Universities while advancing the development of young scientists and providing exciting educational outreach opportunities for K-12 and undergrad students via the new curricula developed here. The California State University Sacramento Science Educational Equity Program and Department of Biological Sciences will collaborate to deliver and coordinate these outreach efforts.

Funding Agency: California Wellness Foundation, \$53,328

Project Title: *Preparation of Pre-Health Professional Students: The Source of Diversity in Health Professions*

Provides core operating support to bolster the Science Educational Equity (SEE Program's efforts to increase diversity in the health professions by enhancing the recruitment, preparation and competitiveness of a pool of health professional school applicants whose demographics reflect the racial, ethnic, linguistic and cultural diversity of the population of California.

Principal Investigator: Timothy Horner, Geology

Contact Information: hornertc@csus.edu, (916) 278-5635

Funding Agency: Sacramento City, \$55,700

Project Title: *Monitoring Gravel Agm Sites FY 2013*

Faculty and students from California State University Sacramento will focus on physical and hydrologic measurements at three gravel addition sites, and will use these measurements to characterize salmonid spawning habitat. The project will use a BACI study design ("Before, After, Control, Impact") to show differences between restored and un-restored gravel areas. This long-term monitoring will help determine the longevity and effectiveness of gravel addition projects.

Principal Investigator: Judi Kusnick, Geology

Contact Information: kusnickje@csus.edu, (916) 278-4692

Funding Agency: Elk Grove Unified School District, \$273,289

Project Title: *Excellence in Science Education Plus (eSCI+) YR 2012/13*

This project is a partnership among the Elk Grove Unified School District, the College of Natural Sciences and Mathematics at Sacramento State University, and the School of Education at the University of California at Davis. The purpose of the partnership is to provide professional development in science education to 85 teachers in grades 6-8 within the Elk Grove Unified School District. Funding is through the California Mathematics & Science Partnership (CaMSP) program of the California Department of Education. The project is a replication of an earlier CaMSP project in which NSM partnered with EGUSD to provide Professional Development to 100 teachers in grades 3-5.

Funding Agency: Alameda County, \$18,288

Project Title: *Alameda COE Lesson Study Consulting*

The Sacramento State Center for Mathematics and Science Education (MASE) will provide consulting services to the Alameda County Office of Education in support of the San Francisco Bay Integrated Middle School Science Partnership (IMISS). IMISS is a research and teacher professional development program funded through a National Science Foundation Mathematics and Science Partnership MSP-targeted award.

Principal Investigator: Matthew C. Schmidlein, Geography

Contact Information: schmidlein@csus.edu, 916-278-7581

Funding Agency: U.S. Geological Survey, \$17,165

Project Title: *Tsunami Pedestrian Evacuation Analysis*

Working with the US Geological Survey this project will develop tools to appropriately model best case pedestrian evacuation times for tsunami inundation areas. This information will allow emergency managers to better understand the relative vulnerability of communities and populations to tsunamis, as well as prioritize mitigation dollars towards those actions most likely to reduce the loss of lives given tsunami inundation zones.

Principal Investigator: Tatiana Sergan, Physics & Astronomy

Contact Information: tsergan@csus.edu, 916-278-5908

Funding Agency: Meridian Deployment Corporation, \$14,043

Project Title: *Optoelectronic Solar Tracking Device*

Meridian Deployment Corporation is in the process of development of an optoelectronic motion-free tracking device that eliminates all disadvantages of current electro-mechanical trackers used for solar concentration applications. It uses electrically tunable liquid crystal layer to change optical properties of complete system, thus allowing for active solar tracking. Our extensive expertise in the area of liquid crystals will allow us to be a vital part of this project: we will assemble several prototypes according to Meridian Deployment Corporations specifications and perform characterization of their electro-optical performance. We will also consult Meridian Deployment on liquid crystal materials and components intended for use in the tracking device.

Principal Investigator: Lynn Tashiro, Physics & Astronomy

Contact Information: tashirol@csus.edu, (916) 278-7687

Funding Agency: National Science Foundation, \$424,371

Project Title: *2012/2013 Sacramento PASS*

The *Sacramento State PASS Project: Peer Assisted Student Success* seeks to increase the retention and graduation rates of students majoring in Science, Technology, Engineering and Mathematics (STEM) disciplines. The PASS project consists of an innovative, multifaceted approach based on early intervention and advising, a Commit to Study program, and a Peer Assisted Learning (PAL) program designed to provide students with the skills and resources needed to succeed as STEM majors.

Social Sciences & Interdisciplinary Studies

Principal Investigator: Mark Basgall, Archaeological Research Center

Contact Information: mbasgall@csus.edu, (916) 278-5330

Funding Agency: State of California Military Department, \$250,354

Project Title: *Camp Roberts Survey*

The Archaeological Research Center provides archaeological technical and field support services; cultural resource management; evaluations and surveys of archaeological sites; archaeological data recovery; assistance with the repatriation of human remains; and analysis of and cataloging artifact collections.

Principal Investigator: Ernest Cowles, Institute for Social Research

Contact Information: cowlese@csus.edu, (916) 278-5737

Funding Agency: California Department of Social Services, \$46,358, \$88,070

Project Title: *CCLD CBCB Workload Study*

The Institute for Social Research provides students with opportunities to learn by participating in research on real-world problems, helping faculty in their research efforts, and engaging in applied social science research for federal, state, and local government agencies, non-profit organizations, and the broader community.

The CCLD LPA Workload Study is a study of the state's Licensing Program Analysts as a re-evaluation of the budgeting standard established by a 2001 study. In addition to the field analyst positions studied in 2001, this study will include positions within the Caregiver Background Check Bureau.

Funding Agency: California Department of Social Services, \$82,728

Project Title: *CCLD LPA Workload Study 2013/14*

This is the second year of a study of the state's Licensing Program Analysts as a re-evaluation of the budgeting standard established by a 2001 study. In addition to the field analyst positions studied in 2001, this study will include positions within the Caregiver Background Check Bureau.

Funding Agency: RP Group, \$49,189

Commission College Student Survey

A Career Technical Education (CTE) Employment Outcomes Study to measure the Community College impacts students. There appears to be a gap between where our students are succeeding and the measures that are commonly recognized. With this information RP Group will take a look at one statewide effort to measure successes in a new way – the CTE Employment Outcomes.

Funding Agency: California Children & Families Commission, \$150,000

Project Title: *First 5 2011-2012 Annual Report*

First 5 California annual evaluation of programs and a fiscal report for presentation to the Governor and the State Legislature.

Funding Agency: California Department of Pesticide Regulation, \$50,000

Project Title: *Childcare Center Pesticide Use Survey*

A survey of the pest management practices of California licensed child care centers. In order to monitor progress, the contractor will conduct a statewide IPM survey of California licensed child care centers and compare the results with the previous survey to understand the status and trends associated with the 2008 California Child Care IPM and pest management survey.

Principal Investigator: Timothy Fong, Ethnic Studies

Contact Information: tfong01@csus.edu, (916) 278-6802

Funding Agency: U.S. Department of Education, \$72,384

Project Title: *Supplement for Scholarship, Leadership and Service: Where Opportunity Comes Full Circle*

The *Full Circle Project* is designed to increase Asian American and Pacific Islander student recruitment, retention and graduation rates; encourage those students' involvement in a student leadership program; expand and enhance service learning opportunities via Sacramento State's nationally recognized 65th Street Corridor Community Collaboration Project; and synthesize data gathering of Sac State students and those throughout the California State University system. Through strong academic advising, engagement and mentoring, the *Full Circle Project* aims to create a stable path to college success that other students can follow.

Principal Investigator: Donna Hoenig-Couch, Center for California Studies

Contact Information: hoenigco@csus.edu, (916) 278-6906

Funding Agency: Judicial Council of California, \$34,834

Project Title: *Online Courses for Judicial Administration Masters*

Funding for this project will be used to administer online courses for the Master's Certificate in Judicial Administration Program at Sacramento State.

Principal Investigator: Mical Shilts, Family & Consumer Science

Contact Information: shiltsm@csus.edu, (916) 278-4288

Funding Agency: UC Davis, \$19,054

Project Title: *Expanded Food & Nutrition Education Program*

Assist the UC-ANR State Expanded Food and Nutrition Education Program (EFNEP) office with updating adult curriculum, pilot testing with comparison group nutrition to observe if evaluation data improves for EFNEP participants' nutrition quality and training staff on the education process.

Academic Affairs

Principal Investigator: Juanita Barrena, LS-AMP

Contact Information: jbarrena@csus.edu, (916) 278-3838

Funding Agency: National Science Foundation, \$492,762

Project Title: *2012-14 CSU-LSAMP Bridge to the Doctorate at CSU, Los Angeles*

The goal of the 2012-14 California State University-Louis Stokes Alliance for Minority Participation Bridge to the Doctorate Activity (CSU-LSAMP-BD) is to bring the talent of 12 graduates of LSAMP undergraduate programs to academe and research at the frontiers of science and engineering. The project aims to expand the number of students from underrepresented

minority groups in doctoral programs at highly competitive research universities by providing a Master's level "bridge" to doctoral-level study for students who would be unlikely to apply or be admitted directly to doctoral level study upon completion of the baccalaureate. California State University, Northridge (CSUN), one of the 22 California State University campuses in CSU-LSAMP, is the performing site for this BD activity. CSUN is a public comprehensive university with an enrollment of over 35,000 students. Students from underrepresented minority (URM) groups comprise 44.5% of enrollment at CSUN.

Principal Investigator: Viridiana Diaz, CAMP

Contact Information: viridiaz@saclink.csus.edu, (916) 278-7241

Funding Agency: San Joaquin County, \$23,608

Project Title: *College Assistance Migrant Program Summer Leadership Institute 2012*

The 2012 session will host 50 migrant students entering 7th and 8th grade for a two-week residential program. Participating students will come from various areas in Region 23 and will be housed in American River Commons. The program will focus on English Language Arts and Mathematic skills in order to prepare for the California High School Exit Exams (CAHSEE). In addition, the following topics will be embedded throughout the curriculum: College Preparedness Series, Self Advocacy & Leadership Series, Cultural and Historical Series, *In the Arts* Creative Series, Recreation and Sports Series and STEM (Science, Technology, Engineering and Mathematics) Series.

Principal Investigator: Michaeline Veden, Academic Technology & Creative Services

Contact Information: mveden@csus.edu, (916) 278-5756

Funding Agency: California Environmental Protection Agency, \$100,000

Project Title: *CalEPA EEI Project*

The Creative Services team provides multimedia design and production services to non-profits and government agencies through contracts and grants.

Funding Agency: California Department of Boating & Waterways, \$60,000

Project Title: *Various Media Production*

Research, design, produce and deliver various brochures and posters on boating education and water safety.

Funding Agency: California Department of Boating & Waterways, \$29,000

Project Title: *Aqua Smart Poster Contest*

Provide necessary level of expertise to design and develop the DBW Safe & Wise WaterWays Poster contest.

Student Affairs

Principal Investigator: Lori Varlotta, Student Affairs

Contact Information: varlotta@saclink.csus.edu, (916) 278-4988

Funding Agency: U.S. Dept. of Health & Human Services, \$256,354

Project Title: *Be Well: Suicide Prevention & Mental Wellness*

The SAMSHA Grant supports an array of campus activities to help the grantee build a solid foundation for delivering and sustaining effective mental health and substance abuse prevention and treatment services.