

Zoe Lofgren Appropriations Requests FY 2010

Project: Quagga and Zebra Mussel Prevention - Vessel Inspection Program
Recipient: County of Santa Clara, Department of Parks and Recreation, 298
Garden Hill Drive, Los Gatos, CA 95032
Request: \$500,000

This project will augment local inspection efforts of boats in order to prohibit quagga and zebra mussel pest introduction, and to mitigate further spread of the mussels from southern California and the San Justo reservoir in San Benito County into adjacent agricultural regions. Program funding will also be used to test and evaluate a newly developed vessel inspection database that will help the County of Santa Clara track recreational boating activity, vessel inspections, inspection failures, vessel quarantines and other critical statistical data of boating activity within the County. The development and successful implementation of inspection standards coupled with a reliable tracking database has the potential to bring uniformity to a multi-jurisdictional problem if expanded through partnerships into other locations throughout the State.

Zebra and quagga mussels are invasive aquatic pests that have recently been introduced to portions of California. Recreational boating has been identified as a vector of introduction, and once introduced to a waterway, significant economic damage occurs because these pests reproduce prolifically, clogging filters, pipes, pumps and critical infrastructure of agricultural, municipal and industrial water delivery systems. A mussel infestation will likely result in significant impacts to the environment and losses in local revenue from recreational boating. Once introduced, eradication of these pests is extremely costly, and ongoing costs to repair recurring damage to the water supply infrastructure limits its usefulness.

Project: Lower Silver Creek Flood Protection Project
Recipient: Santa Clara Valley Water District, 5750 Almaden Expressway, San
Jose, CA 95118
Request: 12,800,000

This project will allow for the completion of design and the initiation of construction activities on reaches 4-6 of Lower Silver Creek. Lower Silver Creek is a major tributary to Coyote Creek and drains a portion of the City of San Jose. Over the past 50 years, Lower Silver Creek has experienced severe flooding that resulted in damage to residential, commercial and industrial properties. This project will provide flood protection to approximately 5,400 properties, resulting in the avoidance of damages from a one-percent flood in the area estimated to be \$51 million (2000 value). This project will also improve fish passage by eliminating barriers and restoring and creating shaded riverine aquatic habitat while constructing a low-flow channel.

Project: Martial Cottle Park Development
Recipient: County of Santa Clara, Department of Parks and Recreation, 298
Garden Hill Drive, Los Gatos, CA 95032

Request: \$1,000,000

Marital Cottle is a 288-acre jointly-owned County-State park currently under development in the heart of Santa Clara Vallley. Federal funding will be used to construct improvements (trails, staging areas, park entry and roadway improvement, irrigation systems, water system connections, and agricultural support facilities) identified in a long-term Park Master Plan and State General Plan. Marital Cottle Park will be utilized as an educational facility and work farm that promotes and sustains the agricultural heritage and history of Santa Clara Valley. The Park will also aid in the economic development of the area by providing families, youth, school groups, research institutes and individuals with new opportunities to experience outdoor education, outdoor recreation and sustainable agriculture.

Project: VTA Renewable Energy Conversion Project

Recipient: Santa Clara Valley Transportation Authority, 3331 North First Street, San Jose, CA 95134

Request: \$3,000,000

In response to the concern of the impact of global climate change, VTA has adopted a comprehensive Sustainability Program to conserve natural resources, reduce greenhouse gas emissions, prevent other types of pollution and increase the use of renewable energy and materials. This project will install a photovoltaic system at the Santa Clara Valley Transportation Authority's (VTA) Chaboya Bus Operating Division in the City of San Jose. The system will offset 100% of the electrical use for the facility.

Project: Revolving Loan Fund for First-Time Homebuyers in Santa Clara County

Recipient: Housing Trust Fund of Santa Clara County, 95 South Market Street, Suite 550, San Jose, CA 95113

Request: \$400,000

This project will fund a revolving loan fund for first-time homebuyers with low- to moderate-income in Santa Clara County. The Housing Trust Fund of Santa Clara County is a county-wide non-profit organization that is able to leverage public funding with private dollars to create first-time homebuyer programs that directly impact the jobs-housing balance and make Silicon Valley housing more affordable to those who want to live and work here. Even with the current adjustment of home prices, new lending restrictions and the high cost of housing keeps homeownership beyond the reach of many in this region. This project will fund up to 62 loans to assist new buyers with closing cost, downpayment and mortgage assistance. Helping first-time homebuyers purchase their first home is not only an asset-building strategy for individuals and families, it is an economic development mechanism for communities. To date, the organization has helped the economic development of the region by assisting over 2,000 families and individuals buy their first home.

Project Name: Autumn Street Parkway Development, San Jose, CA

Recipient: City of San Jose, 200 East Santa Clara Street, 18th Floor, San Jose, CA 95113

Funding Request: \$1,000,000

Federal funding will provide gap financing for development of Autumn Street parkway, a local arterial street that is critical to opening up the HP Pavilion / Diridon Train Station area to support planned downtown San Jose expansion. The project will create a river frontage road that will also incorporate improvements for bicycle and pedestrian commuting amenities, complementing the recent expansion of Guadalupe River Park as both a community asset and option for alternative transportation in the region. The Park, encompassing over 240 acres, completed a major expansion in 2005, adding new bike and pedestrian trails that now carry over 2,000 commuters each day and help relieve the traffic on major highways and local streets. As approved in the Guadalupe River Park Master Plan adopted in 2002, the Autumn Street project enables extension of the Park's bike and pedestrian trail system connectivity to Downtown San Jose.

The Parkway and its travel lanes will improve access to the Downtown area from San Jose Mineta Airport, the new I-880/Coleman Avenue Interchange, and the interchange at Route 87 and Taylor Street. It will create a new access point to the expanded core and alleviate traffic congestion and Level-of-Service impacts for the general area. Traffic capacity benefit to parallel corridors range from 10% to 20% on First, Third, Fourth, Tenth and Eleventh Streets, and in the Alameda Neighborhood Business District. The San Jose General Plan, Diridon / Arena Strategic Development Plan, Downtown Strategy 2000 EIR, and the Downtown Access and Circulation Study all identify this improvement as necessary to support the ongoing growth and development of the Downtown as an employment, housing and cultural center.

Project: San Jose Redevelopment Area Sewer Main Rehabilitation

Recipient: City of San Jose, 200 East Santa Clara Street, 18th Floor, San Jose, CA 95113

Request: \$300,000

This project will enable completion of the final phase in fully rehabilitating the obsolete sewer system in the historic Japantown area, a designated redevelopment district, located in San Jose, California. The funding would be used to finish assessment, replace and/or rehabilitate sewer mains, manholes and junction structures. This project links to work undertaken in fiscal year 2009 to replace the sewer laterals which flow into the mains.

The project area includes approximately 1,400 single-family dwellings housing a predominantly lower-income population. Japantown is also bordered by the two major waterways that flow through San Jose, the Guadalupe River and Coyote Creek, and during heavy rains, the combination of the aging infrastructure and insufficient clean-outs often result in significant backups in the laterals, exposing residences and businesses to untreated sewage. The project will mitigate this public health risk and rehabilitate the area's aging sewer infrastructure.

Project: South San Francisco Bay Salt Ponds Restoration (FWS)
Recipient: Santa Clara Valley Water District, 5750 Almaden Expressway, San Jose, CA 95118
Request: \$4,000,000

The requested funding would be utilized to further the South San Francisco Bay Salt Ponds Restoration Project, the second largest wetlands restoration project in the United States. The Don Edwards San Francisco Bay National Wildlife Refuge is currently managing 9,600 acres of the recently acquired South Bay Salt Ponds, and funding is needed to effectively manage these lands, including installation and management of water control structures, levee maintenance, and monitoring of salt ponds. Continued maintenance and management of ponds and water control structures is essential and as such, \$3,000,000 is requested to match California state funds for implementation of Phase I of the South Bay Salt Pond Restoration Project. The Refuge also requires an increase of \$1,000,000 in its budget for levee maintenance to protect Silicon Valley from tidal flooding prior to implementation of the permanent flood control solution by the Army Corps of Engineers currently being pursued. The Salt Ponds Restoration Project will transform the salt ponds into a vibrant wetlands area that will provide extensive habitat for federally endangered birds, fish and wildlife.

Project: South San Francisco Bay Salt Ponds Restoration (USGS)
Recipient: Santa Clara Valley Water District, 5750 Almaden Expressway, San Jose, CA 95118
Request: \$1,150,000

This project will fund the interdisciplinary monitoring (biological, hydrological and water quality studies) of the salt ponds in San Pablo Bay and San Francisco Bay. With the restoration of both the South Bay and North Bay salt ponds, there is urgent need for monitoring to guide the Restoration's planning and implementation efforts. In fact, the continuance of the Restoration project is dependent on monitoring as the project is proceeding based on adaptive management techniques. The South San Francisco Bay Salt Ponds Restoration Project is the second largest wetlands restoration project in the United States and will transform the salt ponds into a vibrant wetlands area that will provide extensive habitat for federally endangered birds, fish and wildlife.

Project: San Jose Area Water Reclamation and Reuse Project
Recipient: City of San Jose, 200 East Santa Clara Street, 18th Floor, San Jose, CA 95113
Request: \$7,000,000

The San Jose Water Reclamation and Reuse Project will increase water supply reliability and protect endangered species by reducing wastewater discharges into San Francisco Bay through the recycling of wastewater. The program contains 105 miles of pipeline and three pumping stations that provide a reliable, constant supply of high quality recycled water for industry and irrigation to support sustainable urban water use and protect the Silicon Valley's economy. The request is for reimbursement from the

Federal government for their share of construction costs as authorized in Public Law 102-575. This project is critical as it augments the San Jose area's water supply by conserving groundwater resources, which is especially important in light of the State's current drought conditions. The program also decreases the amount of treated effluent discharged into the San Francisco Bay, preserving and protecting the salt marsh habitat of two federally listed endangered species.

Project: Guadalupe River, CA

Recipient: Santa Clara Valley Water District, 5750 Almaden Expressway, San Jose, CA 95118

Request: \$12,000,000

The Guadalupe River project will provide needed flood protection to downtown San Jose and the surrounding area while protecting and improving the water quality of the river and preserving and enhancing the river's habitat, fish and wildlife. The project will protect the region from possible damages exceeding \$576 million from a one percent flood. It is of note that the requested funding will complete construction and remove the project from the Corps of Engineers' portfolio of work.

The project is part of a multi-phased flood protection project along the Guadalupe River and is an integral component to downtown San Jose's revitalization efforts. Flood protection works include: channel widening, bridge replacement, underground bypass box culverts, streambed erosion protection features, and terraces as well as on- and off-site environmental remediation. The project will also enhance federally-listed Steelhead and Chinook salmon runs through on- and off-site environmental work as well as further the development of an extensive riverfront park with numerous recreation elements.

Project: Upper Guadalupe River, CA

Recipient: Santa Clara Valley Water District, 5750 Almaden Expressway, San Jose, CA 95118

Request: \$12,500,000

The Upper Guadalupe River flood protection project will provide flood protection for 7,500 homes and businesses in Santa Clara County with potential damages from a one-percent flood event exceeding \$280 million. The project will protect over 2,300 acres of land and provide long-term environmental benefits for fish and wildlife habitat.

Specifically, the project will include restoring fish passage for migrating salmon and Steelhead trout, greatly increasing the riparian habitat and restoring 6.4 miles of native vegetation in the riparian corridor.

Project: Coyote Creek Watershed, CA

Recipient: Santa Clara Valley Water District, 5750 Almaden Expressway, San Jose, CA 95118

Request: \$100,000

The project is a new study and was authorized by a May 2002 resolution of the House Transportation and Infrastructure Committee. The Coyote Creek Watershed Study will examine ways to provide flood protection for the cities of San Jose, Milpitas, and Morgan Hill, including a major portion of the Silicon Valley's high-tech area, in an environmentally acceptable way that maximizes stream and environmental restoration and recreational opportunities. The project seeks to provide flood protection for numerous cities in Santa Clara County in the Coyote Creek Watershed and will safeguard the communities of San Jose, Milpitas and Morgan Hill from potential flood damages of \$138 million (2001 dollars).

Project: Bay Area Regional Water Recycling Program
Recipient: Bay Area Clean Water Agencies (BACWA), 2500 Pittsburg-Antioch Highway, Antioch, CA 94509
Request: \$38,020,000

The Bay Area Regional Water Recycling Program includes the San Jose Area Water Reclamation and Reuse Project; the Mountain View, Moffett Area Reclaimed Water Pipeline Project; the Pittsburg Recycled Water Project; the Antioch Recycled Water Project; the Redwood City Recycled Water Project; the North Coast County Water District Recycled Water Project; the South Santa Clara County Recycled Water Project; the South Bay Advanced Recycled Water Treatment Facility; the CCCSD-Concord Recycled Water Project; and the Petaluma Recycled Water Project, Phases 2A, 2B and 3. The funding will be used to construct treatment, pipeline and related conveyance facilities to develop and expand the use of recycled water to augment surface water supplies, helping to preserve overdrawn river and groundwater supplies, protect the environment and improve the overall security and reliability of the area's urban water systems, which is especially important in light of the State's current drought conditions.

Project: South San Francisco Shoreline, CA
Recipient: Santa Clara Valley Water District, 5750 Almaden Expressway, San Jose, CA 95118
Request: \$2,800,000 – Corps of Engineers / Investigations

This project will continue a Feasibility Study to evaluate integrated flood protection and environmental restoration options for South San Francisco Bay. The study is expected to provide tidal and fluvial flood protection for Silicon Valley, including covering approximately 42,800 acres, 7,400 homes and businesses, and major highways, parks and airports. The funding will allow the Corps of Engineers to make satisfactory progress on completion of the Feasibility Report for the study as directed by the Water Resources Development Act of 2007. The funding will also be utilized to further the South San Francisco Bay Salt Ponds Restoration Project, the second largest wetlands restoration project in the United States. The Restoration Project would provide dramatic benefits to the region, state and nation by transforming 15,100 acres of salt ponds into a vibrant wetlands area that will provide extensive habitat for federally endangered birds, fish and wildlife.

Name: Llagas Creek, CA

Recipient: Santa Clara Valley Water District, 5750 Almaden Expressway, San Jose, CA 95118

Funding Request: \$2,000,000 – Corps of Engineers / Investigations

The project will provide flood protection for 1,100 homes, 500 businesses, and over 1,300 acres of agricultural land in Santa Clara County that would otherwise result in damages totaling more than \$8 million (1982 dollars). The project will serve a 104 mile watershed that encompasses residential, commercial, and agricultural developments and will include modifying and constructing a channel that provides 1 percent flood protection capacity for 7 miles and 5-10 percent flood protection for the remaining 9.6 miles. The project also includes an earth diversion channel, which will allow a portion of the original channel to remain in its natural state, the replacement of 35 road crossings and the planting of significant amounts of native trees and shrubs. The installation of fish ladders, plunge pools and low-flow channels will allow for the upstream migration of the endangered Steelhead trout. This project is currently half-completed, which leaves significant areas of the community exposed to serious flood risks.

Project: San Luis Reservoir Lowpoint Improvement Project

Recipient: Santa Clara Valley Water District, 5750 Almaden Expressway, San Jose, CA 95118

Request: \$1,500,000

This project will increase the operational flexibility of water storage in the San Luis Reservoir, one of the largest reservoirs in California, and ensure a high quality, reliable water supply for San Felipe Division contractors as required through State and Federal water projects. Additional feasibility studies of the low point problem are necessary to improve current conditions at the reservoir. The "low point" is a condition that occurs when the San Luis Reservoir drops below 300,000 acre-feet of storage, which results in higher algae content that negatively affects the water quality. In 2008, the reservoir reached a low point, and the reservoir water required blending with local water supplies to ensure water quality objectives, resulting in costly operational changes and a loss in local water supplies that would otherwise be available for drought conditions, as the State is now experiencing. Currently, state and federal water projects cannot fully utilize water stored at San Luis Reservoir without impacting the reliability of water deliveries to all south of Delta Central Valley Project contractors.

Project: Reach Out and Read

Recipient: Reach Out and Read National Center, 56 Roland Street, Boston, MA 02129

Request: \$10,000,000

Reach Out and Read is a national program that promotes literacy and language development in infants and young children, targeting disadvantage and poor children and families. Through fifteen years of peer-reviewed and published research, an extensive body of documentation now clearly demonstrates the importance of promoting

early language and literacy skills so that children have the essential reading skills to begin school successfully. Yet today, a large number of children do not receive the necessary support and assistance to develop these skills and begin kindergarten read to learn.

To close this gap, the federal government provides funding for a variety of literacy programs and strategies that reach children and parents, and the professionals who interact with them. ROR has proven to among the most effective strategies to promote early language and literacy development and school readiness: pediatricians and other healthcare providers guide and encourage parents to read aloud to their children from their earliest years of their life, and send them home from each doctor visit with books and a prescription to read together.

Currently, nearly 50,000 doctors and nurses have been trained in ROR's proven strategies, and more than 3,500 clinics and hospitals nationwide are implementing the program, reaching more than 25% of America's at-risk-children. Funding provided by Congress through the U.S. Department of Education has been matched by tens of millions of dollars from the private sector and state governments.

Project: Reading is Fundamental

Recipient: Reading is Fundamental, 1825 Connecticut Avenue NW, Washington, D.C. 20009

Request: \$28,000,000

Reading is Fundamental enhances child literacy by providing millions of underserved children with free books for personal ownership and reading encouragement from the more than 18,000 locations throughout all fifty states, Washington, D.C., Guam, Puerto Rico, and the U.S. Virgin Islands.

Project: Education for Democracy Act

Recipient: The Center for Civic Education, 5145 Douglas Fir Road, Calabasas, CA 91302

Request: \$35,000,000

The Education for Democracy Act programs are among the most cost effective programs supported by the federal government. They effectively promote among students a profound understanding of and commitment to the fundamental values and principles of American constitutional democracy as expressed in such seminal documents as the Declaration of Independence, the Constitution and Bill of Rights, and the Gettysburg Address. They also promote students' capacities to participate competently and responsibility in the political life of their communities and the nation.

Through the We the People programs every congressional district receives free sets of specialized textbooks for their schools at the upper elementary, middle and high school levels. Teachers benefit from professional development seminars and institutes to improve their content knowledge and teaching methods. A network of dedicated

volunteers administer each program locally, adapting the program to their local needs and leveraging the federal funding with additional amounts at the state and local level in support of the program.

The School Violence Prevention Demonstration Program (SVPDP) provides valuable staff training to improve civic responsibility and promote positive attitudes. The Native American Initiative, administered as a part of the SVPDP, provides civic education programs and assistance to Native American schools. The High Needs Initiative is reaching out to students in schools that serve high percentages of socio-economically disadvantaged students and those experiencing attendance or truancy problems.

The Civitas International program provides for a series of exchanges among leaders in civic education in the United States and emerging and established democracies worldwide. A number of research studies have testified to the positive impact of all of these programs on student civic knowledge, skills, and dispositions. Additional information on all of the programs and the research evidence is available at www.civiced.org.

Project: Community Collaborative Response to Victims of Domestic Violence
Recipient: San Jose State University Research Foundation, 210 North Fourth Street, 4th Floor, San Jose, CA 95112
Request: \$440,000

This project develops a model of collaborative community response to domestic violence, demonstrating how teams of professionals from different government agencies and private organizations can work together to deliver more effective services to victims. The project will be run by the College of Applied Arts and Sciences at San Jose State University (SJSU), with interdisciplinary participation from a variety of academic departments, in collaboration with public agencies and community organizations in Santa Clara County and the City of San Jose. Funding will go toward (1) offering interdisciplinary courses in domestic violence, (2) placing interns in community partner agencies, (3) organizing county and regional conferences, (4) offering classes in non-violent parenting and therapeutic recreation for victim families, (5) conducting evaluation research for local agencies, and (6) providing training to professionals from other jurisdictions in California. This would be year two of funding for this project--SJSU expects to transition to self-sustaining operations for future years.

The main goals of this project are: (1) providing a collaborative model of training for domestic violence response, (2) establishing clear lines of collaboration between SJSU and the agencies and organizations that provide services to victims, (3) evaluating the effectiveness of local agency services, and (4) providing effective classes to domestic violence victims themselves. Deliverables include new models for university and agency collaborations to improve service delivery to victims of domestic violence, cross-disciplinary curricula and team internship descriptions, conference and training materials, and evaluation research and materials.

Project: Santa Clara County Criminal Justice Information Control Law & Justice Systems Plan

Recipient: Santa Clara County, 1555 Berger Dr., Building 2, San Jose, CA 95112

Request: \$2,050,000

The Criminal Justice Information Control (CJIC) system is Santa Clara County's criminal case history and tracking application. All criminal justice agencies in the County rely on it during their day-to-day operations, and it is also used by a variety of other local, state, and federal agencies. However, the CJIC currently relies on outdated technology—it was developed in the 1970s and re-engineered in 1995. Much of the software and hardware is now obsolete—support from vendors is disappearing and key staff are retiring without available replacements. This project will develop a Law & Justice Systems Roadmap for key upgrades and enhancements to the CJIC, which will ultimately prevent technical failures and provide new functionalities and efficiencies. It will also allow for CJIC to interface with upgraded systems from other jurisdictions. Measurable outcomes from this project include: (1) the facilitation of more timely, efficient, and effective access to criminal justice information, including sharing between jurisdictions; (2) a better understanding of the planning, forecasting, analytical reporting, and data needs of the criminal justice community; (3) identifying cost-effective upgrades for the transition to the new system; (4) mitigating the impact of the California's statewide court technology initiative on Santa Clara County.

Project: San Jose Police Department Mobile Data Computer Replacement

Recipient: City of San Jose, 200 East Santa Clara Street, 18th Floor, San Jose, CA 95113

Request: \$760,000

This project will fund the acquisition and installation of approximately 100 trunk-mounted Mobile Data Computers (MDCs) for the fleet of the San Jose Police Department (SJPD). MDCs in law enforcement vehicles provide immediate access to criminal records and case history and allow officers to wirelessly enter incident information from the field. This project will fund the replacement of MDCs that will be more than seven years old and are now failing, due to disk drive failures. The amount requested will fund approximately 25% of the total needed replacements. The new MDCs will allow officers to take full advantage of the SJPD's new online record management system, including field access to open case information. The units will also include GPS and mobile vehicle video capabilities.

Project: University Associates-NASA Research Park

Recipient: University of California at Santa Cruz, 1156 High Street, Santa Cruz, CA 95064

Request: \$2,000,000

UC Santa Cruz, Carnegie Mellon University, the Foothill-De Anza Community College District, and Santa Clara University, in partnership with NASA, will create a sustainable "community of the future" dedicated to education, research and innovation in green

technologies on 75 acres of land in the NASA Research Park, Moffett Field, California. This project has not received previous federal funding. This funding will be used to complete a full system detail design of the facility. The goals of this project include: (1) creating a research and education community that will catalyze the development of green technology; (2) connecting NASA and university researchers to enhance the capacities of both; (3) taking advantage of Silicon Valley's highly educated and productive workforce and community of innovation.

Project: Development & Testing of Advanced Paraffin-based Hybrid Rockets for Space Applications

Recipient: Space Propulsion Group, Inc., 760 San Aleso Avenue, Sunnyvale, CA 94085

Request: \$5,012,550

Recent research at Stanford University has led to the identification of a new class of fast burning paraffin-based fuels that promise to make hybrid rockets a practical system for a wide variety of propulsion applications of interest to the government. Because of this discovery, hybrid rockets are now practical for applications where high thrust is required. FY10 funds will be used to develop core technologies and to develop scaled-up motors, including the completion of tests of 24 inch diameter, 25,000 pound thrust-class motors.

Project: Almaden Air Force Station Environmental Assessment and Remediation

Recipient: U.S. Army Corps of Engineers on behalf of Midpeninsula Regional Open Space District, Headquarters, U.S. Army Corps of Engineers, 441 G. Street, NW, Room 3T55, Washington, DC 20314

Request: \$4,000,000

In 1986, the Midpeninsula Regional Open Space District (MROSD) purchased lands that include the former Almaden Air Force Station (AFS) atop Mt. Umunhum in Santa Clara County from the Federal government. Prior to the transfer of ownership to MROSD, the General Services Administration (GSA) and the Department of Defense (DoD) acknowledged that the site was contaminated by DoD activities. In addition, GSA and DoD gave MROSD assurances that the property would be decontaminated by the Federal government. Shortly thereafter, cleanup responsibility was transferred to the Army Corps of Engineers, under the Formerly Used Defense Sites (FUDS) program. Since then, cleanup has proceeded at a painfully slow pace. This inadequate response has allowed toxic materials on site to become an increasing danger to public health and the environment, including threatening to contaminate area potable water supplies. Further, the necessary remediation of the site has increased beyond the scope of work that is currently authorized through the FUDS program. Augmenting FUDS efforts, these funds will be used for proper and long overdue clean-up of the former Almaden AFS under the direction of the Army Corps of Engineers. This is a valuable use of taxpayer funds because complete remediation of the site will alleviate health and environmental impacts, as well as finally allowing site access for public use as originally intended over two decades ago.

Project: Printed and Conformal Electronics for Military Applications
Recipient: FlexTech Alliance, 84 W. Santa Clara Street, Suite 630, San Jose, CA 95113
Request: \$1,500,000

Under Army Research Lab oversight, the FlexTech Alliance will develop and manage a supply chain and prototype development program for printed and conformal electronics that will support military applications.

The driving force of technology is shifting from constant miniaturization, such as microchips for computers, to products that are on a human scale and, by definition, cannot be made smaller and still remain user friendly. Newly emerging technologies and products, which will be the future of U.S. manufacturing, will not focus so much on miniaturization as adaptation. According to Dr. John Parmentola, the Army's Director for Research and Laboratory Management "Flexible (conformal) electronics technologies hold great promise in providing an endless number of application opportunities that will stimulate job creation and business development on a global scale. The development of compelling system concepts for military and commercial applications are key elements in driving basic and applied research, invention, innovation and manufacturing for flexible electronics and related technologies. Applied research efforts will be needed to develop these concepts.

Examples of such efforts include sensors that change color and morphology to blend in with their environment. Such sensing systems will require a combination of sensors, light emitting devices, active control materials, communications and embedded processing. The development of a health monitoring T-shirt would enable the creation of automated living systems that incorporate tele-presence. Such systems could provide the capability of restoring lost function to humans and lessen the burden of an aging population on our health care system.

A necessary first step in establishing this type of manufacturing capability in the U.S. is R&D undertaken by scientists and engineers in industry and in academia. Printed and conformal electronics is a transformational technology that will be accomplished through the merging of new electronic platforms with traditional materials and industries, such as textiles, building materials and plastics. Enabling this industry will require new materials, processes, technology and innovative, large area system design. The consequences are revolutionary to the whole infrastructure of materials, manufacturing and design and these topics are so encompassing that nanotechnology, biotechnology, imaging technology and integrated circuits all will be integrated onto a new platform. The diversity of applications and technologies will be immense. But, the U.S. needs to act quickly and decisively if we are to be competitive in the next significant shift in the economics of electronics, as competitor nations clearly see this leap coming and are already taking action to exploit it.

Project: Solar Panel Installer and Retrofitting Training Project

Recipient: Center for Employment Training
Request: \$350,000

This project will provide job training for solar panel installation and retrofitting to eligible, unemployed clients in need of developing skill competencies for green jobs in Santa Clara County. Vocational training and remediation will be provided to dislocated workers and out-of-school youth, ages 18-24 years old, in preparation for employment opportunities in the expanding green jobs economy. CET is a private, non-profit, human services organization focused on providing skills training, basic education and job placement services to hard-to-serve populations. The program has an 88% graduation rate and an 80% placement rate with 90% six month job retention. CET is focused on helping youth and other dislocated workers learn job skills and obtain full time employment to achieve economic self-sufficiency and is accredited by Department of Education with a nationally-recognized contextual training model.

Project: Student Partners Reaching Kids
Recipient: Children's Discovery Museum of San Jose, 180 Woz Way, San Jose, CA 95110
Request: \$119,000

Student Partners Reaching Kids (SPRK) serves more than 1,000 "at-risk" children and young adolescents with after school, weekend, and vacation programs, serving primarily low-income, minority youth from the inner city of neighborhoods of San Jose. It is run by the Children's Discovery Museum of San Jose, a non-profit museum and science center that was awarded the National Award for Museum Service in 2001 by First Lady Laura Bush. The flagship offering of SPRK is Discovery Youth, hosted in the museum's state-of-the-art media studio, trains students in digital photography, video production, and web design while they complete their own media projects. In another SPRK offering, young adolescents facilitate activities with younger children on the museum's floor.

Project: San Jose State University Center for Global Innovation and Immigration
Recipient: San Jose State University Research Foundation, 210 North Fourth Street, 4th Floor, San Jose, CA 95112
Request: \$220,000

The project establishes an interdisciplinary Center for Global Innovation and Immigration (CGII), envisaging faculty and student participation from multiple departments in the College of Social Sciences at San Jose State University (SJSU). The CGII will also engage in collaborative efforts with other colleges in SJSU, community colleges, universities in the CSU and UC system and other relevant community-based and non-governmental organizations. The main objective of the CGII is to facilitate interdisciplinary research on a comprehensive, multifaceted examination of immigrants' experiences globally, drawing upon the richness of the San Francisco Bay area. The goals of the CGII are to provide better information on immigration issues, to improve the quality of people's lives in the San Francisco Bay area, to assist in policy development, and to assess unmet needs directly related to

immigration issues that the communities experience at multiple spatial scales, such as at local, state, national and international levels. CGII activities will include conducting research projects; holding conferences, workshops and seminars for teachers and scholars; providing research opportunities for faculty, graduate and undergraduate students; maintaining the relationship with immigrant communities through the dissemination of information on immigrant population; organizing artistic presentations and cultural exchanges; and providing lectures on immigration research in and outside the U.S. as well as research on trans-national migration.