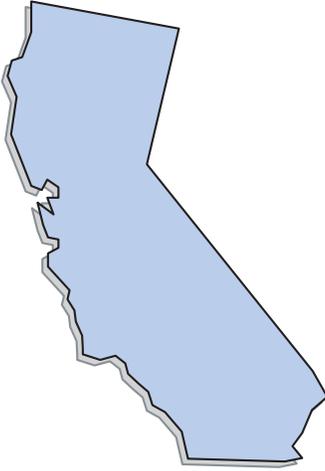


California QZAB Projects





## CALIFORNIANS FOR SCHOOL FACILITIES



Californians for School Facilities (CSF) is a coalition of California school districts and business groups striving to obtain federal assistance for California's school infrastructure.

The Qualified Zone Academy Bond program has had great success in California bringing together school districts and business communities to create highly innovative educational curricula centered in school facilities. In fact, in 2002 the California Department of Education received over \$132 million in QZAB applications, with only \$53 million available for allocation.

Please contact CSF Executive Director Emily Stone at (916) 441-5063 for further discussion of the QZAB program.

Inside this booklet you will see how California school districts collaborated with private entities to develop highly creative educational opportunities for California students utilizing the QZAB program.

Although California passed Proposition 47 in November of 2002, the largest school construction bond measure in our history totaling \$11.4 billion for K-12 education, California's need for new construction and modernization remains pressing, a need estimated to exceed \$16 billion. This estimate does not include the emergency maintenance and repair needs our schools face on a daily basis. The QZAB Program has provided California with a successful way to maximize local funds and the funds provided through Proposition 47 (and past State bond measures) to assist with this need.

The QZAB program has assisted 46 school districts across the state, including six charter school programs, in the renovation and repair of school buildings. Over \$270 million in California QZABs have been issued. In 2003 alone, over \$117 million in applications were received with only \$49.5 million in QZAB allocations available. Over \$67 million in QZAB applications remain unfunded. As a representation of how much these funds are needed and how quickly school districts can utilize them, California's QZAB allocations were completed between six and twelve months after approval of their request by the California Department of Education.

Highly creative academic programs and private public partnerships have been stimulated between school districts and the business and corporate communities through the QZAB program. The Baldwin Park Technology Achievement Academy in the Baldwin Park Unified School District is an example where partnerships with companies such as Compaq and Cisco help provide students with the opportunity to participate in network certification and computer repair programs at the secondary grade level; programs previously unavailable with existing facilities and resources.



## Center for Advanced Research and Technology (CART) Clovis Unified/Fresno Unified JPA Fresno County



### Student Opinion About C.A.R.T.

*"The center for advanced research and technology has been a great learning tool for the 1,200 teenagers attending this year. Through the advanced technology, individual learning, and career orientation, students have been able to develop advanced and specific skills that help them now and in the future.*

*CART is the most advanced technological high school in the area. All of the students are able to work on laptops while at school, and are able to access their files from their home computers, or laptops they take home. When students have to miss school, they are still able to*  
**continued on following page...**

This unique project combines two large suburban/agricultural school districts in an economically depressed area of California to seek multiple business partners and pursue an educational goal. Clovis USD and Fresno USD submitted a joint application thus pooling their resources for a \$20,450,000 project. Their Joint Powers Authority rehabilitated a closed pump-manufacturing warehouse to establish 11 technological academies in the Center for Advanced Research and Technology (CART). QZAB Bonds issued were used to finance a renovation of 80,000 sq. ft. facilities. The final facility costs to renovate this building and make it educationally ready was \$35-36 million.

Academic emphases are Global Dynamics, Professional Sciences, Advanced Communications and Engineering in a high tech environment. The technological laboratory suites provide students relevant, specialized experiences in agriculture, biomedicine, chemistry, design/engineering, forensics, environment, financing, information, logistics/spatial, manufacturing, and telecommunications.



## Center for Advanced Research and Technology (CART) Clovis Unified/Fresno Unified JPA Fresno County

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stay in touch with their project groups and teachers through the use of the internet and the CART server. Most of the work the students do are on the laptops and they are even able to e-mail their homework to their teachers.*

*The teachers allow the students to work on their own as much as possible while backing them up with instruction and support. The students do work that is relevant to the occupation they hope to pursue which includes job shadowing, internships, and part-time jobs. The education they obtain prepares them for the specific job field they are interested in as well as further education that they may pursue.*

*We feel that we have accomplished so much in the way of learning in our specific field of study that we will be able to start in the field with more knowledge than those who have attended a traditional high school.*

*We feel prepared for higher learning as well as breaking into the high tech jobs of the future."*

**Stephanie Coan  
Ashlie Patterson  
CART Biomedical Students 2001**

CART is an innovative, high-tech, career-oriented high school. CART provides a state-of-the-art research and technology facility where students design and complete projects that reflect real-world problems in collaboration with partners from the local, national and international business community. Students each receive their own laptop computers for use during school hours and hours spent away from the school. One student was tracked while she traveled through airports, hotels, and sites in Belgium that allowed her to keep current with assignments while pursuing travel overseas.



The curriculum utilizes the team approach and teachers have high expectations for student outcomes. The assignments are rigorous and relevant. While this curriculum is happening nation-wide, team/project centered instruction is new to the Fresno area. The curriculum is interdisciplinary and includes the student's concentration, math, english, and government/economics.

Students apply for admission and are not accepted on academic achievement--the target student is the "middle" student who is not always struggling, yet not over-achieving. After seven months of operation, this state-of-the-art facility with state-of-the-curriculum is working to the student's advantage.

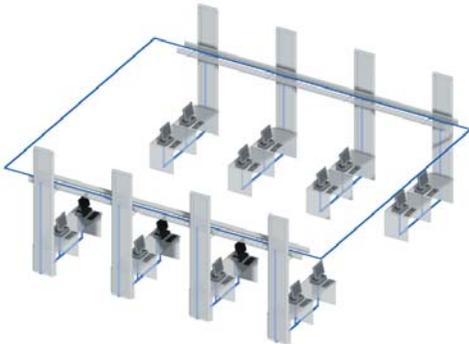
Contributing private entities include Microsoft, Grundfos Pump Corporation, Johanson Transportation, and Richard Lake CPA. The Foundation for Clovis Schools pledged an additional \$100,700 for the CART project. These business partners provided hardware, software, necessary infrastructure (for qualified purposes) to support the technical curriculum being taught. In addition, these business partners continue to provide support with teacher training, mentoring, and aiding in the classrooms. The partnerships continue to flourish with each passing day.



## Computer Technology Academies Baldwin Park Unified School District Los Angeles County

### Private Partners

Intel donated over \$1.2 million for teacher training, development, equipment, materials and consulting services. Compaq Computer Corporation contributed \$1,250,339 through their partnership program including substantial hardware grants and access to Compaq's Self-Maintainer Hardware Repair Program. Cusato & Company will provide the academies with curriculum, materials and teacher training. Osborn Architects provided architectural and construction services.



Baldwin Park USD requested a bond issuance of \$24 million to rehabilitate 2 High Schools and 4 Middle Schools in need of modernization and technology upgrades. QZAB bonds funded technology upgrades, professional development and a modernization of the Campus Program which included seismic and structural improvements, installation of HVAC, ADA access modifications, electrical upgrades, new water, sewer and gas infrastructure, new roofing and upgraded alarm, security and safety systems.

Computer Technology Academies were established focusing on vocational technology, specifically "A+ Service Technician" and the "Network+ Technician" certification programs. These two programs prepare high school students with skills necessary to become certified as service and network technicians based on a worldwide standard of competency. The Computer Technology Repair Academy provides middle school students with basic knowledge and skills necessary to eventually complete industry specific certification programs. The middle-school-based Academy will work in conjunction with the High School Computer Technology Academy to prepare students for the field of technology. Teachers receive ongoing professional technology training with the most up-to-date equipment available.





# Technology and Hospitality Academies Pomona Unified School District Los Angeles County



### Private Partners Include:

Cisco Systems, Spectrum Communications, Sodexo-School Services, The Gas Co. - A Sempra Energy Company, Apple Computer, HP/Compaq, Fairplex, NASA/JPL, and Western University of Health Sciences.



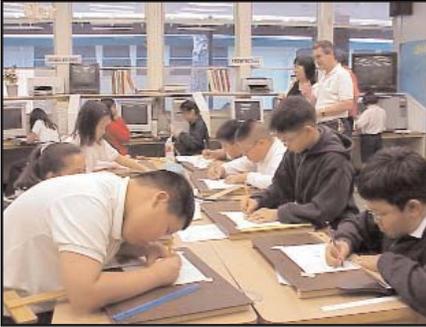
Pomona issued \$30 million in QZABs for the implementation of seven academies. Academy programs featuring career majors in Teaching Professions, Health Professions, Media Professions, Hospitality Professions, Business Professions, Transportation Professions and Entertainment Professions.

The majority of QZAB funds are being used to renovate two existing commercial facilities (a former mall) in order to accommodate 60 classroom spaces, a multipurpose room, a technology/multimedia production center, a commercial kitchen facility, a health academy clinical training center, and a teacher-training center.

The curriculum of each academy is geared toward the development of professional skills relative to the student's career major. The academies are technologically based, including connections to professional mentors via the Internet and teleconferencing. All academies are connected on the District's fiber optic wide area network.



**Rosemead Academy**  
**Rosemead School District**  
Rosemead, California



The mission of the Rosemead Academy is to offer all students in the Rosemead School District a relevant, multi-dimensional learning experience with special emphases on business, technology and reading skill improvement to prepare them to excel in the 21st century. The Academy will offer an Exploring Technology Program and a Reading Enrichment Program. The Exploring Technology Program is designed to introduce students to using tools, materials and methods to solving problems related to technology and product development. Students will incorporate new technology into their projects and business plans while developing basic business and related vocational skills.



The Reading Enrichment Program will provide focused reading comprehension training to Title 1 and low-performing students as preparation for educational growth and workplace achievement. The Reading Enrichment Program will support the Exploring Technology Program by improving basic learning skills for students participating in both programs.

The Rosemead School District partnered with organizations such as SBC Datacom, Cisco, Apple, and a local organization, Buddha's Light International Association, to provide equipment and service related contributions that assist with the development and expansion of the Academy Programs.



## QZAB Vertical Slice Project San Jose Unified School District San Jose County



Gunderson teachers, in service, on various software applications.



The Vertical Slice initiative is a response to the challenge of preparing students to thrive in the world in which they live each day. As our environment evolves, so should our educational programs. Preparing our youth to live, learn, and work in a knowledge-based economy requires access to tools that can provide information, communication and the creation of educational content. This initiative provides an opportunity for the San Jose Unified School District (SJUSD) to realize its vision to transform the teaching and learning environment by providing access and use of more sophisticated tools.

The Vertical Slice Model School initiative is designed to improve student achievement and prepare students to enter the workforce or higher education. The new environment will provide benefits to stakeholders -- students, teachers, staff, parents and community. The initial rollout will occur at a "Vertical Slice Model School" including one elementary school (grades 4 and 5), one middle school and one high school. These schools have been selected by assessing student needs and technological proficiency of staff.

Students involved in this program will be provided with a solid foundation of basic skills and a motivating learning environment designed to allow them



## **QZAB Vertical Slice Project San Jose Unified School District San Jose County**



**Students in Gunderson's Environmental and Spatial Technology Lab participate in project based learning using high end technology to develop presentations on their service projects.**



**Gunderson students working on projects in their Mac Lab.**

to excel. Technology will be an important element of the program. It engages students and fires their imaginations. It helps teachers stimulate young minds in ways that will make a profound and lasting difference. Numerous research studies on the impact of technology on student achievement have demonstrated this finding with remarkably similar results.

Keys to the success of this initiative include:

- 1) integrating the use of technology and innovative software to provide an engaging curriculum aligned to District standards;
- 2) providing teachers and administrators with access to professional development;
- 3) timely student data to measure student performance and intervene when appropriate; and
- 4) increased parent and community involvement to support student achievement.

SJUSD has set a bold new vision for the 21st Century. Our partnership with Apple and IBM builds on SJUSD's belief that great tools help students make connections, analyze ideas, and develop conceptual frameworks for thinking and problem solving. The outlined plan for developing the Vertical Slice Project focuses on world-class, 21st century learning results enabling students, teachers, and their families to elevate achievement, expand aspirations and prepare students for a future economy that will rely heavily on technology and innovation.



## **Culinary Academy** **Paso Robles Joint Unified School District** San Luis Obispo County



Paso Robles JUSD planned a Culinary Academy associated with the High School. Wysong Construction, RHEON U.S.A. and Kamran & Co., Inc. contributed over \$100,000 to the academy. The District requested \$678,000 to provide institutional style cooking equipment and to modernize the cold storage and ventilation system. The spending plan is broken out as follows:



1. \$385,000 - Ventilation system and cold storage needed for storage, safety and sanitation for culinary students.
2. \$243,000 - Cooking equipment for instruction of culinary techniques in both restaurant style (griddles, fryers, stoves, steamers, ovens, etc.) and institutional style (steam kettles, roll-in rack proofers and ovens, bakery, etc.) cooking. Another area of instruction will be in commercial food production and packaging. The food produced by the students will be used in District student feeding programs.
3. \$50,000 - Development of curriculum, books and supplies and instructor start-up needs.

The Culinary academy consists of a classroom type setting with full Kitchen equipment and design. There are approximately 60 students enrolled in the academy ROP program two hours per day where they use culinary equipment to prepare food items and catering services for the school sites throughout the district.



## eLearning Academy San Lorenzo Unified School District Alameda County

### Private Partners

Dell Computer Corporation is contributing discounts, staff time, training and other services.



San Lorenzo USD was authorized \$10,750,000 in QZAB bonds. Proceeds of the Certificates were used by the District to install technology infrastructure and related service upgrades and to facilitate the providing of computer and technology related instruction in eight of the District's 16 school sites. The purpose of the project is to encourage teachers to use project-based learning as their primary instructional strategy. Technology is simply the vehicle through which this systemic change will occur.

Funds will be used for staff development and to provide laptop computers for students in grades 4-12. Wireless points of access will be installed at each site, which will allow staff members and students to access the Internet as well as the District's wide area network from any District site. In addition, the program will allow students and their families to access the network and Internet from home by dialing in from a telephone line. Currently 3,500 laptops have been issued. Private partners in the program include Dell Computer Corporation, which is contributing discounts, staff time, training and other services.



## San Luis Obispo County Office of Education Rancho El Chorro Outdoor School Campus San Luis Obispo County

### Private Partners Include:

- Pacific Gas & Electric
- Duke Energy
- The California Conservation Corps
- The American Evergreen Foundation



QZAB proceeds allowed renovation of the facility and the purchasing of equipment to provide state of the art technology for outdoor education at Rancho El Chorro Outdoor School Campus. Education programs at the Campus include:

- Grades K-8 Day Programs in outdoor and environmental education serving 8,000 students annually. Concepts include cycles in nature, habitats, Native American culture, and California history.
- 5th-6th grade Residential Outdoor School Program serving 2,000 students annually. Concepts include interdependence, animal adaptations, plants, fresh water ecology, astronomy, earth science, marine and estuarine studies, soils, and nighttime creatures.
- Marine Science Education Program initially serving 2,000 students annually. Beginning 2002-2003, the program was expanded to include day program students with an estimated 6,000 students served annually.
- Professional Development Workshops and Seminars serving 10,000 local teachers and administrators annually in: Science, Mathematics, English/ Language Arts, History/Social Science, Beginning Teachers Support Assessment (BTSA), English Language Learners (ELL), Environmental Education, Visual and Performing Arts, Physical Education, Prevention Programs, Special Education, Alternative Education, etc.
- Camp Hapitok (a residential summer program serving students with communication disorders).



## Crenshaw High School New Media Academy Los Angeles Unified School District Los Angeles County

### Funding

- QZAB: \$302,400
- Workforce LA: \$35,000

### Corporate Contributors

- ABC Entertainment
- BreakAway Technologies
- Digital Arts Network



The Crenshaw High School New Media Academy (NMA) is a college preparatory program focused around a career theme of multimedia and TV production. QZAB funds were instrumental in renovating an old, unused auto shop into a state-of-the-art multimedia studio that serves as the anchor room for other classrooms in the building that are a part of the Media Academy.

The NMA was designated as one of the State of California's Partnership Academies which provided us with a structure and system to deliver quality and innovative academic and technical instruction. As a result of QZAB and the California Partnership Academy the following results have occurred:

1. Annual retention of 85% of students in the program.
2. Student exposure to higher levels of technology.
3. Partnerships with over ten media organizations, schools or businesses.
4. Students in the school who are not in the academy can take classes in the studio.
5. A positive community response to the studio.

The studio, built with QZAB funds, laid the foundation for program expansion and designing more academies for our school.



## **Business Academy**

### **San Luis Obispo County Office of Education**

San Luis Obispo County

#### **Private Partners Include:**

- Private Industry Council
- Sierra School Equipment Company
- Heiser & Associates, Inc.
- CASBO
- Quintessential School Systems



San Luis Obispo County Office of Education was authorized to issue \$2 million in QZAB bonds for use at the School Business Academy. The proceeds will be used to modernize the facility, purchase equipment and furniture and provide technology to the academy.

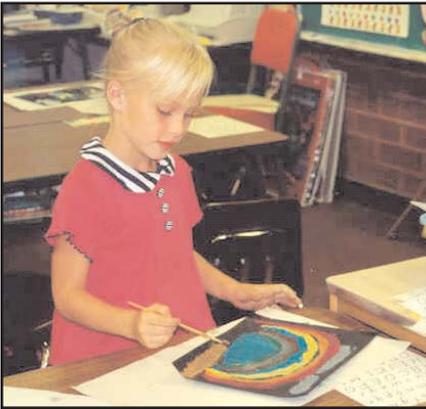
Private entities contributing include a contribution from the Private Industry Council, Sierra School Equipment Company, Heiser & Associates, Inc., CASBO and Quintessential School Systems. Contributions include mentoring and career guidance services, workplace skill development, space planning design services, new furniture, design and computer-aided design rendering, technical assistance in developing curriculum and staff development, and computer and software licensing.



## Educational/Professional Development Academy Eastside Union Elementary School District Los Angeles County

### Private Partners Include:

- The Galef Institute
- MeshworX
- Spectrum Communications



Eastside USD plans to utilize the proceeds of the \$3.5 million QZAB bonds to establish an Educational/Professional Development Academy program at the Eastside Elementary School. The campus will undergo a modernization project to include an upgrade of the fire alarm and intercom systems, new electrical infrastructure, technology infrastructure and cabling, new HVAC units, ADA upgrades, interior/exterior refinishes, plumbing and redesign. Equipment needs include computers, printers, computer desks and audiovisual equipment. Classrooms will be used as laboratories to accomplish the following goals:

- Maximize student and teacher mathematics competency.
- Develop student abilities to read and write at the State standards.
- Develop student abilities in critical thinking and problem solving.
- Provide practical applications for information learned in courses.
- Maximize teacher competence by building teams of teachers at different levels of their professional development.

The District will utilize the "Different Ways of Knowing" (DWOK) program to ensure that each student achieves his/her essential skills in literacy and mathematics. This approach will provide the structure, curriculum and monitoring required to enhance student skills thereby encouraging education development and potential.

Private entity contributions include The Galef Institute, MeshworX and Spectrum Communications in the form of discounts; donations of hardware, software and training materials; professional development, technology support, mentoring and internship services.



## School to Career Academies Los Angeles Unified School District Los Angeles County

### Private Partners Include:

- Workforce LA
- Sony Corporation
- DreamWorks SKG
- Entertainment Industry Development Corporation
- Digital Coast
- 20th Century Insurance Company
- Mental Health Association
- Joe's Garage
- Zappa Institute of Technology
- Paramount
- Universal

LAUSD has been authorized \$24 million to distribute among 22 schools. Bond proceeds will be used to pay for the rehabilitation or repair of facilities and the acquisition and installation of equipment, instructional materials and professional development services at School to Career Academy Programs school sites.

The providers of academic and career skills in several of the District's high schools have created the School to Career Academy Programs, based upon school and private employer partnerships, to promote student learning and achievement through a standards-driven curriculum that provides academic and career preparation skills for all students. The School to Career Academy Programs include the New Media Academy, the Junior Police Academy, the Technology Academy, the Finance Academy, the Human Services Academy, the Academy of Travel and Tourism, the Health Center Academy, the Science Academy and the Live Concert Academy.

Contributing partners have provided various types of support to the Academies, including: student and teacher mentorship and internship programs; donations of set props, production equipment; funds; curriculum assistance; reduced-rate equipment and software; classroom design assistance; guest teachers; mini-summits; sponsorship and evaluation of student projects; industry mentors; technical support; textbooks and materials; and fundraising services.

Private entities that contributed to support the programs include, but are not limited to, Workforce LA, Sony Corporation, DreamWorks SKG, Entertainment Industry Development Corporation, Digital Coast, 20th Century Insurance Company, Mental Health Association, Joe's Garage, Zappa Institute of Technology, Paramount, Universal and various other foundations and corporations.



## **Future Teacher Academy Vaughn Next Century Learning Center Los Angeles Unified School District Los Angeles County**

### **Funding**

\$3.8 Million for Renovation

### **Goal**

Professional Development for Education Careers

### **Private Partners Include:**

- McGraw-Hill
- Pueblo Contracting Services
- Marshall Lewis Architecture
- American Express
- The Riordan Foundation
- The Bernard Lee Schwartz Foundation
- The Anne and Kirk Douglas Playground Award Fund

Vaughn Elementary School, under the name Vaughn Next Century Learning Center, is one of the most successful and famous charter schools in the country. The proceeds of the \$3.8 million QZAB bond were applied to remodeling current facilities, adding a "reading patio" and providing computers and science equipment. Also equipment procured for the Community library is housed at the school.

QZAB bonds utilized to establish the College-prep Academy for secondary students, also known as the "Future Teacher Academy" has an emphasis on professional development/teacher training. Graduates from Vaughn will enter a four-year college majoring in education and Vaughn anticipates graduating 150 future teachers each year.

Contributions from the business community include new books for the library, equipment and computers. Business entities such as McGraw-Hill, Pueblo Contracting Services, Marshall Lewis Architecture and American Express are participating, as well as The Riordan Foundation, The Bernard Lee Schwartz Foundation and The Anne and Kirk Douglas Playground Award Fund.